

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

FACTORY PRIMERMAXI EP (A)

Date of first edition: 5/26/2021 Safety Data Sheet dated 10/07/2025

version 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: FACTORY PRIMERMAXI EP (A)

Trade code: S100B0301 11

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: primer; Restricted to professional users

Uses advised against: All uses other than recommended ones; Not intended for use by private individuals or non-professionals

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A. Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre,

Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification







2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1B May cause an allergic skin reaction.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Repr. 1B May damage fertility.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 1 of 24

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

Contains

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl]phenoxy}methyl)oxirane

4-morpholinecarbaldehyde

Dir. 2004/42/EC (VOC directive)

Primers

EU limit value for this product (cat. A/g): 350 g/l

This product contains max 0 g/l VOC.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FACTORY PRIMERMAXI EP (A)

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥20-<50 %	bis-[4-(2,3- epoxipropoxi)phenyl]propane	CAS:1675-54-3 EC:216-823-5 Index:603-073-00-2	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatio 2 Chronic 2, H411, M-Chronic:1	01-2119456619-26 C
			Specific Concentration Limits: C ≥ 5%: Eye Irrit. 2 H319 C ≥ 5%: Skin Irrit. 2 H315	
≥10-<20 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Repr. 1B, H360F 4	01-2119485289-22
≥10-<20 %	Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy} methyl)oxirane	EC:701-263-0	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411, M- Chronic:1	
≥0.5-<1 %	4-morpholinecarbaldehyde	CAS:4394-85-8 EC:224-518-3	Skin Sens. 1B, H317	01-2119987993-12

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 2 of 24

≥0.05-<0.1 Quartz CAS:14808-60-7 STOT RE 1, H372

EC:238-878-4

<0.01 % phosphoric acid CAS:7664-38-2 Skin Corr. 1B, H314 01-2119485924-24

EC:231-633-2

Index:015-011-00-6 Specific Concentration Limits:

 $10\% \le C < 25\%$: Eye Irrit. 2 H319 $10\% \le C < 25\%$: Skin Irrit. 2

H315

C ≥ 25%: Skin Corr. 1B H314

<0.0015 % methanol CAS:67-56-1 Flam. Liq. 2, H225; STOT SE 1, 01-2119433307-44

EC:200-659-6 H370; Acute Tox. 3, H301; Acute Index:603-001-00-X Tox. 3, H311; Acute Tox. 3, H331

Specific Concentration Limits: $C \ge 10\%$: STOT SE 1 H370 $3\% \le C < 10\%$: STOT SE 2 H371

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 3 of 24

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Community Cocupational Exposure Limits (CLL)				
	OEL Type	Country	Occupational Exposure Limit	
Calcium carbonate CAS: 471-34-1	NATIONAL	HUNGARY	Long Term: 10 mg/m3 inhalable aerosol Source: 5/2020. (II. 6.) ITM	
	NATIONAL	IRELAND	Long Term: 10 mg/m3 Inhalable fraction Source: 2021 Code of Practice	
	NATIONAL	IRELAND	Long Term: 4 mg/m3 Respirable fraction Source: 2021 Code of Practice	
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 inhalable aerosol Source: EH40/2005 Workplace exposure limits	
	NATIONAL	UNITED KINGDOM OF GREAT	Long Term: 4 mg/m3 respirable aerosol Source: EH40/2005 Workplace exposure limits	

BRITAIN AND NORTHERN IRELAND

NATIONAL CROATIA Long Term: 10 mg/m3

U

Source: NN 1/2021

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 4 of 24

NATIONAL CROATIA Long Term: 4 mg/m3

R

Source: NN 1/2021

NATIONAL FRANCE Long Term: 10 mg/m3

Source: INRS outil65

NATIONAL LATVIA Long Term: 6 mg/m3

Source: KN325P1

NATIONAL POLAND Long Term: 10 mg/m3

4)

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 3 mg/m3

D TWA mg/m3: (a), Formel / Formal, NIOSH

Source: suva.ch/valeurs-limites

Barium sulfate

CAS: 7727-43-7

ACGIH Long Term: 5 mg/m3 (8h)

I, E - Pneumoconiosis

NATIONAL BELGIUM Long Term: 5 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 10 mg/m3

U

Source: NN 1/2021

NATIONAL CROATIA Long Term: 4 mg/m3

R

Source: NN 1/2021

NATIONAL IRELAND Long Term: 5 mg/m3

Source: 2021 Code of Practice

NATIONAL SPAIN Long Term: 10 mg/m3

е

Source: LEP 2022

NATIONAL BULGARIA Long Term: 10 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL SLOVAKIA Long Term: 4 mg/m3

10)

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SLOVAKIA Long Term: 1.5 mg/m3

11)

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

SUVA SWITZERLAN Long Term: 3 mg/m3

D TWA mg/m3: (a), Formel / Formal Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 4 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

Quartz CAS: 14808-60-7 ACGIH Long Term: 0.025 mg/m3 (8h)

R, A2 - Pulm fibrosis, lung cancer

NATIONAL HUNGARY Long Term: 0.1 mg/m3

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL IRELAND Long Term: 0.1 mg/m3

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3

Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 5 of 24

Source: D.lgs. 81/2008, Allegato XLIII

NATIONAL SPAIN Long Term: 0.3 mg/m3

Respirable fraction Source: LEP 2022

NATIONAL BELGIUM Long Term: 0.1 mg/m3

С

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL DENMARK Long Term: 0.3 mg/m3

alveolijae, liite 3

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

ΕK

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

1, C

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiūrėti 1 priedo 3 punktą.

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 0.075 mg/m3

S (2)

Source: Arbeidsomstandighedenregeling - Lijst B1

NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 0.15 mg/m3

D TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH

OSHA

Source: suva.ch/valeurs-limites

silicon dioxide, chemically

prepared

CAS: 7631-86-9

NATIONAL BELGIUM Long Term: 10 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL IRELAND Long Term: 6 mg/m3

Inhalable fraction

Source: 2021 Code of Practice

NATIONAL IRELAND Long Term: 2.4 mg/m3

Respirable fraction

Source: 2021 Code of Practice

NATIONAL UNITED Long Term: 6 mg/m3

KINGDOM OF Inhalable aerosol

GREAT Source: EH40/2005 Workplace exposure limits

BRITAIN AND NORTHERN IRELAND

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 6 of 24

NATIONAL Long Term: 2.4 mg/m3 UNITED KINGDOM OF Respirable aerosol

GREAT Source: EH40/2005 Workplace exposure limits

BRITAIN AND NORTHERN IRELAND

NATIONAL GERMANY Long Term: 4 mg/m3

> DFG, 2, Y, E Source: TRGS 900

NATIONAL SLOVENIA Long Term: 4 mg/m3

Y, (I)

Source: UL št. 72, 11. 5. 2021

NATIONAL AUSTRIA

Source: BGBl. II Nr. 156/2021

NATIONAL ESTONIA Long Term: 2 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL LATVIA Long Term: 1 mg/m3

Source: KN325P1

SUVA SWITZERLAN SSC, Fibpulm / Lungenfibrose, Des VMEs se trouvent sous les substances associées /

MAK-Werte finden sich unter den zugeordneten Stoffen

Source: suva.ch/valeurs-limites

SUVA SWITZERLAN Long Term: 4 mg/m3

TWA mg/m3: (i), SSC, Fibpulm / Lungenfibrose D

Source: suva.ch/valeurs-limites

strontium oxide NATIONAL LITHUANIA Long Term: 1 mg/m3 CAS: 1314-11-0

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

Long Term: 0.1 mg/m3 Quartz FU CAS: 14808-60-7

Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung

cancer. Directive 2017/2398

ACGIH Long Term: 0.025 mg/m3 (8h) R, A2 - Pulm fibrosis, lung cancer

NATIONAL HUNGARY Long Term: 0.1 mg/m3 (8h)

Respirable aerosol

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL IRELAND Long Term: 0.1 mg/m3 (8h)

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3 (8h)

Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008

Source: D.lgs. 81/2008, Allegato XLIII

NATIONAL SPAIN Long Term: 0.05 mg/m3 (8h)

Respirable fraction Source: LEP 2022

NATIONAL CROATIA Long Term: 0.1 mg/m3

Source: NN 1/2021

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

MAK, III C, A

Source: BGBl. II Nr. 156/2021

NATIONAL BELGIUM Long Term: 0.1 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL DENMARK Long Term: 0.3 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

11/07/2025 **Production Name** FACTORY PRIMERMAXI EP (A) Page n. 7 of 24 Date

NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiūrėti 1 priedo 3 punktą.

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 0.075 mg/m3

(2

S

Source: Arbeidsomstandighedenregeling - Lijst B1

NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 0.15 mg/m3

TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH

OSHA

Source: suva.ch/valeurs-limites

Aluminium oxide NATIONAL BELGIUM Long Term: 1 mg/m3

CAS: 1344-28-1

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 10 mg/m3

U

Source: NN 1/2021

NATIONAL CROATIA Long Term: 4 mg/m3

R

Source: NN 1/2021

NATIONAL ROMANIA Long Term: 2 mg/m3; Short Term: 5 mg/m3

(Aerosoli)

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SPAIN Long Term: 10 mg/m3

véase Capítulo 9 Source: LEP 2022

NATIONAL AUSTRIA Long Term: 5 mg/m3; Short Term: 10 mg/m3

60(Miw), 2x, A

Source: GKV, BGBI. II Nr. 156/2021

NATIONAL AUSTRIA Long Term: 5 mg/m3; Short Term: 10 mg/m3

60(Miw), 2x, MAK, A

Source: GKV, BGBl. II Nr. 156/2021

NATIONAL DENMARK Long Term: 5 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 4 mg/m3

1

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FRANCE Long Term: 10 mg/m3

Source: INRS outil65

NATIONAL GREECE Long Term: 10 mg/m3

εισπν

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL GREECE Long Term: 5 mg/m3

αναπν

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 8 of 24

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 5 mg/m3

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL HUNGARY Long Term: 2 mg/m3

resp, N

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LATVIA Long Term: 6 mg/m3

Source: KN325P1

NATIONAL LATVIA Long Term: 4 mg/m3

Source: KN325P1

NATIONAL NORWAY Long Term: 10 mg/m3

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 2.5 mg/m3

4)

Source: Dz.U. 2018 poz. 1286

NATIONAL POLAND Long Term: 1.2 mg/m3

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 4 mg/m3

10)

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

SUVA SWITZERLAN Long Term: 3 mg/m3

TWA mg/m3: (a), B, Formel / Formal, NIOSH D

Source: suva.ch/valeurs-limites

SWITZERLAN Long Term: 3 mg/m3; Short Term: 24 mg/m3 SUVA

TWA mg/m3: (a), Fimétal / Metallrauch, NIOSH

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 4 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

phosphoric acid CAS: 7664-38-2

ACGIH

Long Term: 1 mg/m3 (8h); Short Term: 3 mg/m3

URT, eye and skin irr

NATIONAL AUSTRIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

15(Miw), 4x, MAK

Source: BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 1 mg/m3

Е

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: HTP-ARVOT 2020

Long Term: 1 mg/m3 - 0.2 ppm; Short Term: 2 mg/m3 - 0.5 ppm NATIONAL FRANCE

Source: INRS outil65, arrêté du 30-06-2004 modifié

Page n. 9 of 24 11/07/2025 **Production Name** FACTORY PRIMERMAXI EP (A) Date

NATIONAL GREECE Long Term: 1 mg/m3; Short Term: 3 mg/m3

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 1 mg/m3; Short Term: 2 mg/m3

m, EU1, N

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LITHUANIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL NORWAY Long Term: 1 mg/m3

Е

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 2 mg/m3; Short Term: 4 mg/m3

TWA mg/m3: (i), SSC, Poumons VRS Peau Yeux / Lunge OAW Haut Auge, NIOSH OSHA

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 1 mg/m3; Short Term: 2 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: 2000/39/EZ

NATIONAL CYPRUS Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 2 mg/m3

DFG, EU, AGS, Y, E, 2(I) Source: TRGS 900

NATIONAL IRELAND Long Term: 1 mg/m3; Short Term: 2 mg/m3

IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 1 mg/m3; Short Term: 2 mg/m3

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Dir. 2000/39

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 1 mg/m3; Short Term: 2 mg/m3

Y, EU1, (I)

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 1 mg/m3; Short Term: 2 mg/m3

VLI, s

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 10 of 24

methanol	
CAS: 67-56-1	

Source: LEP 2022 EU Long Term: 1 mg/m3 (8h); Short Term: 2 mg/m3 Long Term: 200 ppm (8h); Short Term: 250 ppm **ACGIH** Skin, BEI - Headache, eye dam, dizziness, nausea NATIONAL AUSTRIA Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm 15(Miw), 4x, MAK, H Source: BGBl. II Nr. 156/2021 NATIONAL BULGARIA Long Term: 260 mg/m3 - 200 ppm Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. Long Term: 250 mg/m3; Short Term: Ceiling - 1000 mg/m3 NATIONAL CZECHIA Source: Nařízení vlády č. 361-2007 Sb NATIONAL DENMARK Long Term: 260 mg/m3 - 200 ppm Source: BEK nr 2203 af 29/11/2021 NATIONAL ESTONIA Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 NATIONAL FINLAND Long Term: 270 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm Source: HTP-ARVOT 2020 Long Term: 260 mg/m3 - 200 ppm; Short Term: 1300 mg/m3 - 1000 ppm NATIONAL FRANCE Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail NATIONAL GREECE Long Term: 260 mg/m3 - 200 ppm; Short Term: 325 mg/m3 - 250 ppm Source: ΦΕΚ 94/A` 13.5.1999 NATIONAL HUNGARY Long Term: 260 mg/m3 b, i, BEM, EU2, R+T Source: 5/2020. (II. 6.) ITM rendelet NATIONAL LITHUANIA Long Term: 260 mg/m3 - 200 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 NETHERLAND Long Term: 133 mg/m3 NATIONAL Source: Arbeidsomstandighedenregeling - Lijst A NATIONAL NORWAY Long Term: 130 mg/m3 - 100 ppm ΗE Source: FOR-2021-06-28-2248 NATIONAL POLAND Long Term: 100 mg/m3; Short Term: 300 mg/m3 skóra Source: Dz.U. 2018 poz. 1286 NATIONAL SLOVAKIA Long Term: 260 mg/m3 - 200 ppm Source: 355 NARIADENIE VLÁDY z 10. mája 2006 NATIONAL SWEDEN Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm H, V Source: AFS 2021:3 SWITZERLAN Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm **SUVA** R/H, SSC, B, SNC / ZNS, INRS NIOSH D Source: suva.ch/valeurs-limites UNITED Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm WEL-EH40 KINGDOM OF Sk GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) **BRITAIN AND** NORTHERN **IRELAND**

NATIONAL BELGIUM Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm D

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 260 mg/m3 - 200 ppm

koža

Source: 2006/15/EZ

NATIONAL CYPRUS Long Term: 260 mg/m3 - 200 ppm

δέρμα

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 130 mg/m3 - 100 ppm

DFG, EU, H, Y, 2(II) Source: TRGS 900

NATIONAL IRELAND Long Term: 260 mg/m3 - 200 ppm

Sk, IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 260 mg/m3 - 200 ppm

Cute

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 260 mg/m3 - 200 ppm

Ada

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 260 mg/m3 - 200 ppm

Peau

G

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 260 mg/m3 - 200 ppm

skin

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 260 mg/m3 - 200 ppm

Cutânea

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 260 mg/m3 - 200 ppm

P, Dir. 2006/15

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm

K, Y, BAT, EU2

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 266 mg/m3 - 200 ppm

vía dérmica, VLB®, VLI, r

Source: LEP 2022

EU Long Term: 260 mg/m3 - 200 ppm (8h)

Skin

octamethylcyclotetrasiloxane NATIONAL AUSTRIA

CAS: 556-67-2 Source: BGBl. II Nr. 156/2021

Biological limit values

methanol Biological Indicator: Methyl alcohol; Sampling Period: End of turn; End of working week

CAS: 67-56-1 Value: 30 mg/L; Medium: Urine

Predicted No Effect Concentration (PNEC) values

bis-[4-(2,3-

epoxipropoxi)phenyl]

propane

CAS: 1675-54-3

Exposure Route: Fresh Water; PNEC Limit: 0.006 mg/l

Exposure Route: Marine water; PNEC Limit: 600 ng/L

Exposure Route: Freshwater sediments; PNEC Limit: 0.996 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.099 mg/kg

Exposure Route: Soil; PNEC Limit: 0.196 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.018 mg/l

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Exposure Route: Fresh Water; PNEC Limit: 0.007 mg/l

CAS: 68609-97-2

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 12 of 24

Exposure Route: Marine water; PNEC Limit: 0.072 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 66.77 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 6.677 mg/kg

Exposure Route: Soil; PNEC Limit: 80.12 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 3 µg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.072 mg/l

Reaction mass of 2,2'-[methylenebis(2,1phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4-(oxiran-2ylmethoxy)benzyl] phenoxy}methyl)oxirane

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 25.4 µg/l

Exposure Route: Marine water; PNEC Limit: 300 ng/L

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 294 µg/kg Exposure Route: Marine water sediments; PNEC Limit: 29.4 µg/kg

Exposure Route: Soil; PNEC Limit: 237 µg/kg

Exposure Route: Fresh Water; PNEC Limit: 500 µg/l

morpholinecarbaldehyde CAS: 4394-85-8

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 5 mg/l

Exposure Route: Marine water; PNEC Limit: 50 µg/l Exposure Route: Marine water; PNEC Limit: 2000 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 2.69 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 269 µg/kg

Exposure Route: Soil; PNEC Limit: 244 µg/kg

methanol CAS: 67-56-1 Exposure Route: Fresh Water; PNEC Limit: 20.8 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1540 mg/l

Exposure Route: Marine water; PNEC Limit: 2.08 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 77 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 7.7 mg/kg

Exposure Route: Soil; PNEC Limit: 100 mg/kg

Derived No Effect Level (DNEL) values

bis-[4-(2,3epoxipropoxi)phenyl]

propane CAS: 1675-54-3

CAS: 68609-97-2

Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects

Worker Professional: 0.75 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Worker Professional: 0.75 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 3.571 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects

Worker Professional: 3.571 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 12.25 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 12.25 mg/m³

oxirane, mono[(C12-14-Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects alkyloxy)methyl] derivs.

Worker Professional: 17 mg/kg; Consumer: 10 mg/kg

Page n. 13 of 24 11/07/2025 FACTORY PRIMERMAXI EP (A) Date Production Name

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 29 mg/m³; Consumer: 7.6 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 1219 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects Worker Professional: 68 mg/kg; Consumer: 40 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 9.8 mg/m³; Consumer: 2.9 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 3.9 mg/kg; Consumer: 2.35 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 13.8 mg/m³; Consumer: 4.1 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 1 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects Worker Professional: 1.7 mg/kg; Consumer: 1 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 0.98 mg/kg; Consumer: 1.46 mg/kg

Reaction mass of 2,2'[methylenebis(2,1phenyleneoxymethylene)]
bis(oxirane) and 2,2'[methylenebis(4,1phenyleneoxymethylene)]
bis(oxirane) and 2-({2[4-(oxiran-2ylmethoxy)benzyl]
phenoxy}methyl)oxirane

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 29.39 mg/m^3 ; Consumer: 8.7 mg/m^3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 104.15 mg/kg; Consumer: 62.5 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 6.25 mg/kg

morpholinecarbaldehyde CAS: 4394-85-8

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: $98\ mg/m^3$; Consumer: $29\ mg/m^3$

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 1.7 mg/m 3 ; Consumer: 840 μ g/m 3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 14 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects Worker Professional: 0.293 mg/cm²; Consumer: 176 mg/cm²

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 8 mg/kg

phosphoric acid CAS: 7664-38-2

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 10.7 mg/m³; Consumer: 4.57 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 1 mg/m³; Consumer: 360 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 2 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: $100 \mu g/kg$

methanol CAS: 67-56-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 130 mg/m³; Consumer: 26 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 130 mg/m³; Consumer: 26 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 130 mg/m³; Consumer: 26 mg/m³

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 14 of 24

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 130 mg/m³; Consumer: 26 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 20 mg/kg; Consumer: 4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 20 mg/kg; Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 4 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Suitable materials for safety gloves (EN 374, EN 16523-1:2015+A1:2018: Level 6):

Nitrile rubber - NBR: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Butyl rubber - IIR: thickness ≥0,4mm; breakthrough time ≥480min.

Respiratory protection:

Respiratory protective equipment should be worn when there is a possibility that the exposure limit value will be exceeded. In the absence of exposure limit values, respiratory protective equipment should be worn when adverse effects occur, such as respiratory irritation or discomfort, or if indicated by the results of your risk assessment. Use the following CE-approved air-purifying respirator: A-type organic vapour cartridge (boiling point >65°C)

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Beige Odour: Odourless Odour threshold: N.A. pH: Not Relevant

Kinematic viscosity: <= 20,5 mm2/sec (40 °C)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 1.35 g/cm3

Solubility in water: N.A. Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.00 %; 0.04 g/I

Particle characteristics:

Particle size: N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 15 of 24

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315) c) serious eye damage/irritation The product is classified: Eye Irrit. 2(H319) d) respiratory or skin sensitisation The product is classified: Skin Sens. 1B(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Repr. 1B(H360)

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

bis-[4-(2,3epoxipropoxi)phenyl]

propane

a) acute toxicity

LD50 Oral Rabbit = 19800 mg/kg

LD50 Skin Rabbit > 20 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Positive

epoxy resin with an averamolecular mass <= 700 d irritate skin of rabbits

c) serious eye damage/irritation

Eye Irritant Rabbit Yes

d) respiratory or skin sensitisation

Skin Sensitization Positive

Mouse

f) carcinogenicity Genotoxicity Negative

Mouse, oral NOAEL

Carcinogenicity Oral Rat = 15 mg/kg Carcinogenicity Skin Rat = 1 mg/kg

NOAEL

g) reproductive toxicity No Observed Effect Level Oral Rat = 750 mg/kg

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

a) acute toxicity

LD50 Oral Rat = 26800 mg/kg

LC50 Inhalation Rat > 0.206 mg/l 4h LD50 Skin Rabbit > 4.5 ml/Kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Yes

c) serious eye damage/irritation

Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Positive

g) reproductive toxicity No Observed Adverse Effect Level Skin Rat = 200

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 16 of 24

Reaction mass of 2,2'-

[methylenebis(2,1-

phenyleneoxymethylene)] bis(oxirane) and 2,2'-

[methylenebis(4,1phenyleneoxymethylene)]

bis(oxirane) and 2-({2-[4-(oxiran-2ylmethoxy)benzyl] phenoxy}methyl)oxirane

LD50 Oral Rat > 5000 mg/kg a) acute toxicity

LD50 Skin Rat > 2000 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Positive 4h

c) serious eye damage/irritation Eye Irritant Rabbit No

d) respiratory or skin

sensitisation

Skin Sensitization Positive

Mouse

f) carcinogenicity

Genotoxicity Negative

Hamster oral route

g) reproductive toxicity

No Observed Adverse Effect Level Oral Rat = 750

mg/kg

morpholinecarbaldehyde

a) acute toxicity

LD50 Oral Rat > 7360 mg/kg

LC50 Inhalation of aerosol Rat > 5.3 mg/l 4h

LD50 Skin Rabbit > 18400 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye damage/irritation Eye Irritant Rabbit No

Skin Sensitization Positive

Mouse

d) respiratory or skin

g) reproductive toxicity

sensitisation

No Observed Adverse Effect Level Oral Rat = 1000

mg/kg

Quartz

a) acute toxicity

LD50 Oral > 2000 mg/kg

phosphoric acid

a) acute toxicity

LD50 Oral Rat = 2600 mg/kg

LC50 Inhalation Rat = 3846 mg/m3 1h

b) skin corrosion/irritation Skin Corrosive Rabbit Positive

c) serious eye damage/irritation Eye Irritant Rabbit Yes

g) reproductive toxicity

No Observed Adverse Effect Level Oral Rat >= 500

mg/kg

methanol

a) acute toxicity

LD50 Oral Rat >= 2528 mg/kg

LC50 Inhalation = 43.68 mg/l 6h

Cat

LD50 Skin Rabbit = 17100 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye damage/irritation Eye Irritant Rabbit No

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Negative Mouse intraperitoneal rout

Carcinogenicity Rat Negative

Lowest Observed Adverse Effect Level Oral = 1000 Mouse g) reproductive toxicity

mg/kg

Date 11/07/2025 **Production Name** FACTORY PRIMERMAXI EP (A) Page n. 17 of 24

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

phosphoric acid

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)		
List of Eco-Toxicological prope	rties of the comp	ponents
Component	Ident. Numb.	Ecotox Data
bis-[4-(2,3- epoxipropoxi)phenyl]propane	CAS: 1675-54-3 - EINECS: 216- 823-5 - INDEX: 603-073-00-2	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 2 mg/L 96h
		a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 1.8 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae Scenedesmus capricornutum = 11 mg/L 72h EPA-660/3-75-009
		c) Bacteria toxicity: EC50 Sludge activated sludge = 100 mg/L 3h
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97- 2 - EINECS: 271-846-8 - INDEX: 603- 103-00-4	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss > 5000 mg/L 96h
		a) Aquatic acute toxicity: NOEC Algae Pseudokirchneriella subcapitata = 500 mg/L 72h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 843 mg/L 72h
		c) Bacteria toxicity: EC50 Sludge > 100 mg/L
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy} methyl)oxirane	EINECS: 701- 263-0	a) Aquatic acute toxicity: LC50 Fish Leuciscus idus = 2.54 mg/L 96h
		a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 2.55 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = $0.3 \text{ mg/L} - 21 \text{days}$
		a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 1.8 mg/L 72h
		a) Aquatic acute toxicity: NOEC Sludge activated sludge = 100 mg/L 3h
4-morpholinecarbaldehyde	CAS: 4394-85-8 - EINECS: 224- 518-3	a) Aquatic acute toxicity : LC50 Fish Leuciscus idus > 500 mg/L 96h ,,German Industrial Standard DIN 38412, Part 15 $$
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 500 mg/L 48h EEC Directive $79/831/\text{EEC}$
		a) Aquatic acute toxicity : EC50 Algae German Industrial Standard guideline DIN 38412, part 9 = 23.8 g/L 72h ,,German Industrial Standard guideline DIN 38412, part 9
		c) Bacteria toxicity: EC10 Pseudomonas putida > 2000 mg/L ,,German Industrial Standard guideline DIN 38412, part 8 an EC10

FACTORY PRIMERMAXI EP (A) Date 11/07/2025 **Production Name** Page n. 18 of 24

- EINECS: 231- 48h ,,OECD TG 202, static, Klimisch reliability 1

CAS: 7664-38-2 a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna > 100 mg/L

633-2 - INDEX: 015-011-00-6

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus > 100 mg/L 72h ,,OECD TG 201, static, Klimisch reliabilty 1

a) Aquatic acute toxicity: EC50 Sludge activated sludge > 1000 mg/L 3h ,,OECD TG 209, static, Klimisch reliability 1

methanol CAS: 67-56-1 - EINECS: 200-

EINECS: 200-659-6 - INDEX: 603-001-00-X a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 15400 mg/L 96h

b) Aquatic chronic toxicity: NOEC Fish = 450 mg/L

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 22200 mg/L 48h

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 208 mg/L

a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = $22000 \, \text{mg/L} \ 96h \ \text{OECD} \ 201 \ \text{Guideline}.$

d) Terrestrial toxicity: NOEC Worm Eisenia andrei = 10000 mg/kg

d) Terrestrial toxicity: NOEC Folsomia candida = 1000 mg/kg OECD Guideline

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes:
bis-[4-(2,3- epoxipropoxi)phenyl]propane	Non-readily biodegradable	Oxygen consumption		OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Readily biodegradable	Oxygen consumption	87.000	%; OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy} methyl)oxirane	Non-readily biodegradable		16.000	28days
4-morpholinecarbaldehyde	Readily biodegradable	Dissolved organic carbon	96.000	%; OECD 301 A
methanol	Readily biodegradable			

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value Notes:
bis-[4-(2,3- epoxipropoxi)phenyl]propane	Bioaccumulative	BCF - Bioconcentrantion factor	31.000
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Bioaccumulative	BCF - Bioconcentrantion factor	160.000
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis(4,1- phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy} methyl)oxirane	Bioaccumulative	BCF - Bioconcentrantion factor	150.000
4-morpholinecarbaldehyde	Bioaccumulative	BCF - Bioconcentrantion factor	1.900
methanol	Not bioaccumulative	BCF - Bioconcentrantion factor	< 10

12.4. Mobility in soil

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 19 of 24

Data not available.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane -

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-($\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane)$

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane -

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane)

14.3. Transport hazard class(es)

ADR-Class: 9 IATA-Class: 9 IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

14.5. Environmental hazards

Most important toxic component: bis-[4-(2,3-epoxipropoxi)phenyl]propane

Marine pollutant: Yes
Environmental Pollutant: Yes

IMDG-EMS: F-A, S-F

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 9

ADR - Hazard identification number: 90 ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

ADR Limited Quantities: 5 L ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197 A215

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 20 of 24

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 969

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 69, 70, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: E2 200 500

Explosives precursors - Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

3: Severe hazard to waters

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 0.00 %

Volatile Organic compounds - VOCs = 0.00 g/L

FACTORY PRIMERMAXI EP (A) (not ready to use)

Volatile Organic compounds - VOCs = 0.00 %

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 21 of 24

Volatile Organic compounds - VOCs = 0.04 g/L

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

bis-[4-(2,3-epoxipropoxi)phenyl]propane

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

SECTION 16: Other information

Code	Description	
H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H360F	May damage fertility.	
H370	Causes damage to organs.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Code	Hazard class and hazard category Description	

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1 $$
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1B, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method
Repr. 1B, H360F	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 22 of 24

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 23 of 24

- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (A) Page n. 24 of 24



Exposure Scenario, 07/06/2021

Substance identity	
	bis-[4-(2,3-epoxipropoxi)phenyl]propane
CAS No.	1675-54-3
INDEX No.	603-073-00-2
EINECS No.	216-823-5
Registration number	01-2119456619-26

Table of contents

1. **ES 1** Widespread use by professional workers; ESC2_0000001

1. ES 1 Widespread use by professional workers; ESC2_0000001

1.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks - Etching agent - Resins (prepolymers) - Adhesion promotor
Date - Version	27/05/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	ESC2_0000001
Article Category(ies)	Other articles made of stone, plaster, cement, glass or ceramic (AC4g)

Environment Contributing Scenario

CS1	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Mixing operations - Manual	PROC19

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

Environmental release	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to
categories	inclusion into/onto article (outdoor) (ERC8c, ERC8f)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site = 175 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Provide onsite wastewater removal efficiency of ³ (%):

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

STP effluent (m³/day): 2

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Dispose of waste cans and containers according to local regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 18000 m³/day

Covers indoor and outdoor use

1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Process Categories Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

(PROC8a)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Avoid carrying out activities involving exposure for more than 4 hours per day.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Avoid carrying out activities involving exposure for more than 4 hours per day.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.2. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Avoid carrying out activities involving exposure for more than 4 hours per day.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Wear suitable face shield.

Wear an impervious suit.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.2. CS5: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

Process Categories Manual activities involving hand contact (PROC19)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Avoid carrying out activities involving exposure for more than 1 hour per day.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	= 0.0022 mg/L	EUSES	= 0.00022
marine sediment	= 0.00127 mg/L	EUSES	= 0.0128
freshwater sediment	= 0.012 mg/L	EUSES	= 0.0369
marine water	= 2.34E-05 mg/L	EUSES	= 0.029
soil	= 0.00142 mg/kg dry weight	EUSES	= 0.00722

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 0.84 mg/m ³	ECETOC TRA worker v2.0	0.07
dermal, systemic, long-term	= 0.2742 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.03

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 5E-07 mg/m ³	ECETOC TRA worker v2.0	< 0.001
dermal, systemic, long-term	= 2.743 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.33

1.3. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 0.36 mg/m ³	ECETOC TRA worker v2.0	0.03
dermal, systemic, long-term	= 2.68 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.32

1.3. CS5: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 2E-07 mg/m ³	ECETOC TRA worker v2.0	< 0.001
dermal, systemic, long-term	= 1.414 mg/kg bw/day	ECETOC TRA worker v3	< 0.42
combined routes, systemic, long-term	N/A	ECETOC TRA worker v3	= 0.42

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Exposure Scenario, 03/01/2025

Substance identity	
	oxirane, mono[(c12-14-alkyloxy)methyl] derivs.
CAS No.	68609-97-2
INDEX No.	603-103-00-4
EINECS No.	271-846-8
Registration number	01-2119485289-22

Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC1, PC9a, PC9b)

1. ES 1 Widespread use by professional workers; Various products (PC1, PC9a, PC9b)

1 1	TIT		: E (~ 1	LIVVI
1.1		LES	DEC	ΓΙΟΝ

Exposure Scenario name	Professional application of coatings and inks by brush or roller - Professional application of coatings and inks	
Date - Version	03/01/2025 - 1.0	
Life Cycle Stage	Widespread use by professional workers	
Main user group	Professional uses	
Sector(s) of use	Professional uses (SU22)	
Product Categories Adhesives, sealants (PC1) - Coatings and paints, thinners, paint removers (PC9a) - putties, plasters, modelling clay (PC9b)		

Environment Contributing Scenario

CS1	ERC8c
Worker Contributing Scenario	
CS2 Mixing operations	PROC5
CS3 Large surfaces - Surfaces - Rolling, Brushing	PROC10
CS4 Large surfaces - Surfaces - Roller, spreader, flow application	PROC11
CS5 Large surfaces - Surfaces - Rolling, Brushing	PROC19

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8c)

Environmental	l re	lease
categories		

Widespread use leading to inclusion into/onto article (indoor) (ERC8c)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Amount used, frequency and duration of use (or from service life)

Release type: Intermittent release

1.2. CS2: Worker Contributing Scenario: Mixing operations (PROC5)

Process Categories	Mixing or blending in batch processes (PROC5)
	in many or bronding in batter processes (i no es

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Avoid direct eye contact with product, also via contamination on hands.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Covers use at ambient temperatures.

Body parts exposed:

Assumes that potential dermal contact is limited to hands and forearms.

1.2. CS3: Worker Contributing Scenario: Large surfaces - Surfaces - Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Provide extract ventilation to points where emissions occur.

Avoid direct eye contact with product, also via contamination on hands.

Use long handled brushes and rollers.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.2. CS4: Worker Contributing Scenario: Large surfaces - Surfaces - Roller, spreader, flow application (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

For each use, avoid using for more than < 4 h/event

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Provide extract ventilation to points where emissions occur.

Avoid direct eye contact with product, also via contamination on hands.

Use long handled brushes and rollers.

Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Indoor use Professional use

Temperature: Covers use at ambient temperatures.

1.2. CS5: Worker Contributing Scenario: Large surfaces - Surfaces - Rolling, Brushing (PROC19)

Process Categories

Manual activities involving hand contact (PROC19)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

For each use, avoid using for more than < 1 h/event

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Provide extract ventilation to points where emissions occur.

Avoid direct eye contact with product, also via contamination on hands.

Use long handled brushes and rollers.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Mixing operations (PROC5)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 9.3 mg/m ³	ECETOC TRA worker v2.0	= 0.674
dermal, systemic, long-term	= 0.007 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.002

Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

1.3. CS3: Worker Contributing Scenario: Large surfaces - Surfaces - Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
---	----------------	--------------------	-----------------------------------

inhalative, local, short-term	= 2.325 mg/m ³	ECETOC TRA worker v2.0	= 0.168
dermal, systemic, long-term	= 0.137 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.035

Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

1.3. CS4: Worker Contributing Scenario: Large surfaces - Surfaces - Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, local, short-term	= 0.36 mg/m ³	ECETOC TRA worker v2.0	= 0.03
dermal, systemic, long-term	= 2.68 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.32

Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

1.3. CS5: Worker Contributing Scenario: Large surfaces - Surfaces - Rolling, Brushing (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, local, long-term	= 2E-07 mg/m ³	ECETOC TRA worker v2.0	< 0.001
dermal, systemic, long-term	= 1.414 mg/kg bw/day	ECETOC TRA worker v2.0	= 0.42

Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

FACTORY PRIMERMAXI EP (B)

Date of first edition: 5/26/2021 Safety Data Sheet dated 10/07/2025

version 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: FACTORY PRIMERMAXI EP (B)

Trade code: S100B0302 10

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: hardener

Uses advised against: All uses other than recommended ones 1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A. Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre,

Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification









2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Acute Tox. 4 Harmful if swallowed.

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child. Repr. 2

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1 Very toxic to aquatic life.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects. Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Date 11/07/2025 **Production Name** FACTORY PRIMERMAXI EP (B) Page n. 1 of 12

H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 to do. Continue rinsing.

Contains

1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.

2-propenenitrile, reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated

2,4,6-tris(dimethylaminomethyl)phenol

3-aminopropyldiethylamine

Dir. 2004/42/EC (VOC directive)

Primers

EU limit value for this product (cat. A/g): 350 g/l

This product contains max 0 g/l VOC.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FACTORY PRIMERMAXI EP (B)

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥70-<90 %	2-propenenitrile, reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated	CAS:1173092-74-4 EC:630-554-4	Acute Tox. 4, H302; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	
≥5-<10 %	1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.	CAS:404362-22-7 EC:445-790-1	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-0000018826-60
≥5-<10 %	2,4,6- tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9 Index:603-069-00-0	Acute Tox. 4, H302; Skin Corr. 1C, H314; Eye Dam. 1, H318	01-2119560597-27
≥5-<10 %	3-aminopropyldiethylamine	CAS:104-78-9 EC:203-236-4 Index:612-062-00-1	Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Repr. 2, H361d; STOT SE 3, H335	

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 2 of 12

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Ervthema

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 3 of 12

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Predicted No Effect Concentration (PNEC) values

1,3- Exposure Route: Fresh Water; PNEC Limit: 800 ng/L

benzenedimethanamine, n-(2-phenylethyl) derivs. CAS: 404362-22-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.5 µg/l

Exposure Route: Marine water; PNEC Limit: 80 ng/L

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 ng/L

Exposure Route: Freshwater sediments; PNEC Limit: 140 μ g/kg Exposure Route: Marine water sediments; PNEC Limit: 14 μ g/kg

Exposure Route: Soil; PNEC Limit: 28 µg/kg

Exposure Route: Secondary poisoning; PNEC Limit: 167 $\mu g/kg$

tris

(dimethylaminomethyl)

phenol CAS: 90-72-2

2,4,6-

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 840 µg/l

Exposure Route: Marine water; PNEC Limit: 8.4 µg/l

Exposure Route: Fresh Water; PNEC Limit: 84 μg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 200 µg/l

Exposure Route: Fresh Water; PNEC Limit: 30 μg/l

aminopropyldiethylamine

CAS: 104-78-9

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 300 µg/l

Exposure Route: Marine water; PNEC Limit: 3 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: $418.2 \mu g/kg$ Exposure Route: Marine water sediments; PNEC Limit: $41.8 \mu g/kg$

Exposure Route: Soil; PNEC Limit: 66 µg/kg

Derived No Effect Level (DNEL) values

1,3- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

benzenedimethanamine, Worker Professional: 180 μg/m³; Consumer: 40 μg/m³

n-(2-phenylethyl) derivs. CAS: 404362-22-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 4 μg/m³; Consumer: 2 μg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 50 $\mu g/kg$; Consumer: 30 $\mu g/kg$

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 4 of 12

Consumer: 30 µg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

aminopropyldiethylamine Worker Professional: 24.7 mg/m³; Consumer: 1.8 mg/m³

CAS: 104-78-9

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 3.5 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 500 µg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; EN 374:

Nitrile rubber - NBR: thickness ≥0,35mm; breakthrough time ≥480min.

Respiratory protection:

Gas filter type A.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Yellow

Odour: Characteristic Odour threshold: N.A.

pH: >7.00

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: > 100 °C (212 °F)

Flash point: 148 °C (298 °F)

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 1.03 g/cm3

Solubility in water: Soluble Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0 %; 0 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

Date 11/07/2025 **Production Name** FACTORY PRIMERMAXI EP (B) Page n. 5 of 12

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity
 b) skin corrosion/irritation
 c) serious eye damage/irritation
 d) respiratory or skin sensitisation
 The product is classified: Skin Corr. 1B(H314)
 The product is classified: Eye Dam. 1(H318)
 The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Repr. 2(H361)

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

2-propenenitrile, reaction a) acute toxicity products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated

LD50 Oral = 500 mg/kg

1,3- a) acute toxicity LD50 Oral Rat > 500 mg/kg 500 and 2000 mg/kg

benzenedimethanamine, n-(2-phenylethyl) derivs.

b) skin corrosion/irritation Skin Corrosive Rabbit Positive

d) respiratory or skin sensitisation

Skin Sensitization Positive

g) reproductive toxicity No Observed Effect Level Oral Rat = 15 mg/kg

2,4,6- a) acute toxicity LD50 Oral Rat = 2169 mg/kg

tris

(dimethylaminomethyl)

phenol

LD50 Skin Rat > 1 ml/Kg 6h

b) skin corrosion/irritation Skin Corrosive Rabbit Positive 4h

c) serious eye damage/irritation Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

g) reproductive toxicity No Observed Effect Level Oral Rat = 15 mg/kg

3- a) acute toxicity LD50 Oral Rat = 830 mg/kg aminopropyldiethylamine

инноргоруние стуганите

LC50 Inhalation Vapour Rat Negative 4h No mortality

Mouse

LD50 Skin Rabbit = 524 mg/kg 24h

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 6 of 12

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Very toxic to aquatic organisms.

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Acute 1(H400), Aquatic Chronic 2(H411)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.	CAS: 404362- 22-7 - EINECS: 445-790-1	a) Aquatic acute toxicity: LL50 Fish Oncorhynchus mykiss = 4 mg/L 96h OECD TG 203
		a) Aquatic acute toxicity: EL50 Daphnia Daphnia magna = 3.4 mg/L 48h OECD TG 202
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 0.14 mg/L OECD TG 211 - 21days
		a) Aquatic acute toxicity : NOELR Algae Scenedesmus subspicatus = 0.04 mg/L 72h OECD TG 201
		a) Aquatic acute toxicity : NOEC Sludge activated sewage sludge = 10 mg/L 3h OECD TG 209
2,4,6- tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202- 013-9 - INDEX: 603-069-00-0	a) Aquatic acute toxicity: LC50 Fish Cyorinus carpio = 175 mg/L 96h
		a) Aquatic acute toxicity: LC50 Salmo gairdneri < 240 mg/L 96h
		a) Aquatic acute toxicity: LC50 Daphnia Palemonetes vulgaris = 718 mg/L 96h
		a) Aquatic acute toxicity: EC50 Algae freshwater algae = 84 mg/L
3-aminopropyldiethylamine	CAS: 104-78-9 - EINECS: 203- 236-4 - INDEX: 612-062-00-1	- a) Aquatic acute toxicity: LC50 Fish Leuscisus idus = 146.6 mg/L 96h DIN 38412 part 15
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 30.16 mg/L 48h ,,EU Directive 79/831/EEC, Annex V, part C
		a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 34 mg/L 72h
		c) Bacteria toxicity : EC50 Pseudomonas putida = 100.5 mg/L ,,DIN 38412, part 8

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Notes:
1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.	Non-readily biodegradable	Oxygen consumption	OECD TG 301C
2,4,6- tris(dimethylaminomethyl)phenol	Non-readily biodegradable		
3-aminopropyldiethylamine	Readily biodegradable		OECD Guideline 301A
12.3. Bioaccumulative potentia	I		

•

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 7 of 12

12.4. Mobility in soil

NΔ

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

2735

14.2. UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2-propenenitrile, reaction products with ethylenediamine,

hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine,

hydrogenated - 1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.)

IATA-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2-propenenitrile, reaction products with ethylenediamine,

hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine,

hydrogenated - 1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.)

IMDG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2-propenenitrile, reaction products with ethylenediamine,

hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine,

hydrogenated - 1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.)

14.3. Transport hazard class(es)

ADR-Class: 8 IATA-Class: 8 IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: II IATA-Packing group: II IMDG-Packing group: II

14.5. Environmental hazards

Most important toxic component: 1,3-benzenedimethanamine, n-(2-phenylethyl) derivs.

Marine pollutant: Yes Environmental Pollutant: Yes IMDG-EMS: F-A, S-B

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 8

ADR - Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

ADR Limited Quantities: 1 L ADR Excepted Quantities: E2

Air (IATA):

IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 8 of 12

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: SG35 SGG18 IMDG-Subsidiary hazards: -IMDG-Special Provisions: 274

14.7. Maritime transport in bulk according to IMO instruments

N.A

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: E1 100 200
Product belongs to category: E2 200 500

Explosives precursors - Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

3: Severe hazard to waters

German Lagerklasse according to TRGS 510:

LGK 8A

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2004/42/EC (VOC directive)

(ready to use)

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 9 of 12

Volatile Organic compounds - VOCs = 0.00 %

Volatile Organic compounds - VOCs = 0.00 g/L

FACTORY PRIMERMAXI EP (B) (not ready to use)

Volatile Organic compounds - VOCs = 0.00 %Volatile Organic compounds - VOCs = 0.00 g/L

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

2,4,6-tris(dimethylaminomethyl)phenol

SECTION 16: Other information

Code	Description	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H361	Suspected of damaging fertility or the unbo	orn child.
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolo	onged or repeated exposure.
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting e	effects.
H411	Toxic to aquatic life with long lasting effect	S.
Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
2.6/3 3.1/3/Dermal	- ·	•
	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Flam. Liq. 3 Acute Tox. 3	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3
3.1/3/Dermal 3.1/4/Oral	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4
3.1/3/Dermal 3.1/4/Oral 3.2/1B	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1 3.4.2/1	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1 Skin Sens. 1	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1 Skin Sensitisation, Category 1
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1 3.4.2/1	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Skin Sens. 1A	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1 Skin Sensitisation, Category 1 Skin Sensitisation, Category 1
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1 3.4.2/1 3.4.2/1A 3.7/2	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Skin Sens. 1 Repr. 2	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1 Skin Sensitisation, Category 1 Skin Sensitisation, Category 1 Reproductive toxicity, Category 2
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1 3.4.2/1 3.4.2/1A 3.7/2 3.8/3	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Skin Sens. 1A Repr. 2 STOT SE 3	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1 Skin Sensitisation, Category 1 Skin Sensitisation, Category 1A Reproductive toxicity, Category 2 Specific target organ toxicity — single exposure, Category 3
3.1/3/Dermal 3.1/4/Oral 3.2/1B 3.2/1C 3.3/1 3.4.2/1 3.4.2/1A 3.7/2 3.8/3 3.9/2	Flam. Liq. 3 Acute Tox. 3 Acute Tox. 4 Skin Corr. 1B Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Skin Sens. 1 Stin Sens. 1A Repr. 2 STOT SE 3 STOT RE 2	Flammable liquid, Category 3 Acute toxicity (dermal), Category 3 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin corrosion, Category 1C Serious eye damage, Category 1 Skin Sensitisation, Category 1 Skin Sensitisation, Category 1 Skin Sensitisation, Category 2 Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, H317	Calculation method
Repr. 2, H361	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 10 of 12

Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 11 of 12

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Date 11/07/2025 Production Name FACTORY PRIMERMAXI EP (B) Page n. 12 of 12



Exposure Scenario, 05/11/2021

Substance identity	
	2,4,6-tris(dimethylaminomethyl)phenol
CAS No.	90-72-2
INDEX No.	603-069-00-0
EINECS No.	202-013-9
Registration number	01-2119560597-27

Table of contents

1. **ES 1** Widespread use by professional workers; Fillers, putties, plasters, modelling clay (PC9b)

1. ES 1 Widespread use by professional workers; Fillers, putties, plasters, modelling clay (PC9b)

1.1 TITLE SECTION

Exposure Scenario name	Road and construction applications - Use in rigid foams, coatings, adhesives and sealants	
Date - Version	05/11/2021 - 1.0	
Life Cycle Stage	Nidespread use by professional workers	
Main user group	Professional uses	
Sector(s) of use	Professional uses (SU22)	
Product Categories	Fillers, putties, plasters, modelling clay (PC9b)	

Environment Contributing Scenario

CS1	ERC8b - ERC8e
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Rolling, Brushing	PROC10
CS5 Roller, spreader, flow application	PROC11
CS6 Roller, spreader, flow application	PROC11

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8b, ERC8e)

Environmental	release
categories	

Widespread use of reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) (ERC8b,

ERC8e)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

0.197 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use (or from service life)

Amounts used:

Amount per use <= 0.0014 tonnes/day

Release type: Continuous release

Conditions and measures related to sewage treatment plant

STP type:

No specific measures identified.

Water - minimum efficiency of: = 0.059 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

This material and its container must be disposed of as hazardous.

1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
i i o o cos o da co go i i co	Transfer of substance of mixture (charbing and discharbing) at non-acadeaca facilities

(PROC8a) **Product (article) characteristics** Physical form of product: Liquid Vapour pressure: = 0.197 Pa **Concentration of substance in product:** Covers percentage substance in the product up to 100 %. Amount used, frequency and duration of use/exposure **Duration:** Duration of contact < 30 min Technical and organisational conditions and measures **Technical and organisational measures** Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of: 30 % Local exhaust ventilation Inhalation - minimum efficiency of: 80 % Conditions and measures related to personal protection, hygiene and health evaluation **Personal protection** Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training. Dermal - minimum efficiency of: 90 % Wear a full face respirator conforming to EN136. Inhalation - minimum efficiency of: 95 % Use suitable eye protection. Other conditions affecting worker exposure Body parts exposed: Assumes that potential dermal contact is limited to hands. 1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10) **Process Categories** Roller application or brushing (PROC10) **Product (article) characteristics** Physical form of product: Liquid Vapour pressure: = 0.197 Pa **Concentration of substance in product:** Covers percentage substance in the product up to 100 %. Amount used, frequency and duration of use/exposure

Duration:

Duration of contact < 440 min

Technical and organisational measures

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

3

Inhalation - minimum efficiency of: 44 %

Ensure that direction of application is only horizontal or downward.

Open doors and windows.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Wear a full face respirator conforming to EN136.

Wear suitable respiratory protection.

Wear an impervious suit.

Dermal - minimum efficiency of: 90 % Inhalation - minimum efficiency of: 99 %

Use suitable eye protection.

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.2. CS4: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 0.197 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Duration of contact < 440 min

Technical and organisational conditions and measures

Technical and organisational measures

Mechanical ventilation giving at least [ACH]:

Inhalation - minimum efficiency of: 44 %

Ensure that direction of application is only horizontal or downward.

Open doors and windows.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Wear a full face respirator conforming to EN136.

Wear suitable respiratory protection.

Wear an impervious suit.

Dermal - minimum efficiency of: 90 % Inhalation - minimum efficiency of: 99 % Use suitable eye protection.

Other conditions affecting worker exposure

Outdoor use Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.2. CS5: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 0.197 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Duration of contact < 4 h

Technical and organisational conditions and measures

Technical and organisational measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Inhalation - minimum efficiency of: 44 %

Ensure that direction of application is only horizontal or downward.

Open doors and windows.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Wear a full face respirator conforming to EN136.

Wear suitable respiratory protection.

Wear an impervious suit.

Dermal - minimum efficiency of: 90 % Inhalation - minimum efficiency of: 99 %

Use suitable eye protection.

Other conditions affecting worker exposure

Indoor use

Professional use

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.2. CS6: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 0.197 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Duration of contact < 4 h

Technical and organisational conditions and measures

Technical and organisational measures

Mechanical ventilation giving at least [ACH]:	Inhalation - minimum efficiency of: 44 %
Ensure that direction of application is only horizontal or downward.	
Open doors and windows.	

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.	
Wear a full face respirator conforming to EN136.	Dermal - minimum efficiency of: 90 %
Wear suitable respiratory protection.	Inhalation - minimum efficiency of: 99 %
Wear an impervious suit.	
Use suitable eye protection.	

Other conditions affecting worker exposure

Outdoor use

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8b, ERC8e)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.00172 mg/L	EUSES v2.1	0.037
freshwater sediment	0.00701 mg/kg dry weight	EUSES v2.1	0.027
marine water	0.00017 mg/L	EUSES v2.1	0.037
marine sediment	0.0007 mg/kg dry weight	EUSES v2.1	0.027
Sewage treatment plant	0.014 mg/L	EUSES v2.1	0.069
Agricultural soil	8E-05 mg/kg dry weight	EUSES v2.1	< 0.01
Man via environment - Inhalation	< 0.0001 mg/m³	EUSES v2.1	< 0.01

Man via environment - Oral	< 0.0001 mg/kg bw/day	EUSES v2.1	< 0.01

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.023 mg/m ³	EASY TRA v3.6	0.004
inhalative, systemic, short-term	0.464 mg/m³	EASY TRA v3.6	0.211
combined routes, systemic, long-term	N/A	N/A	0.247
dermal, systemic, long-term	0.03 mg/kg bw/day	RISKOFDERM v2.1	0.203

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.31 mg/m ³	ECETOC TRA worker v3	0.584
inhalative, systemic, short-term	0.4641238 mg/m ³	EASY TRA v3.6	0.59
combined routes, systemic, long-term	N/A	N/A	0.854
dermal, systemic, long-term	0.041 mg/kg bw/day	RISKOFDERM v2.1	0.27

1.3. CS4: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.039 mg/m ³	ECETOC TRA worker v3	0.073
inhalative, systemic, short-term	0.867 mg/m ³	EASY TRA v3.6	0.413
combined routes, systemic, long-term	N/A	N/A	0.343
dermal, systemic, long-term	0.041 mg/kg bw/day	RISKOFDERM v2.1	0.27

1.3. CS5: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.367 mg/m ³	ART v1.5	0.022
inhalative, systemic, short-term	0.023 mg/m³	ART v1.5	0.011
combined routes, systemic, long-term	N/A	N/A	0.827
dermal, systemic, long-term	0.121 mg/kg bw/day	RISKOFDERM v2.1	0.805

1.3. CS6: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.019 mg/m³	ART v1.5	0.037
inhalative, systemic, short-term	0.039 mg/m ³	ART v1.5	0.019
combined routes, systemic, long-term	N/A	N/A	0.101
dermal, systemic, long-term	0.05 mg/kg bw/day	RISKOFDERM v2.1	0.33

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.