

### **Safety Data Sheet**

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

### **GEOLITE GEL (A)**

Date of first edition: 10/11/2021 Safety Data Sheet dated 23/06/2025

version 7

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

### 1.1. Product identifier

Mixture identification:

Trade name: GEOLITE GEL (A) Trade code: S100B0118 32

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

Recommended use: Adhesives and sealants - building and construction works

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)

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.

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



Warning

### **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

### **Precautionary statements**

P102 Keep out of reach of children.

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P273 Avoid release to the environment.

P280 Wear protective gloves and eye 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

to do. Continue rinsing.

P501 Dispose of contents/container in accordance with applicable regulations.

### **Contains**

Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane

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

### 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

NΑ

### 3.2. Mixtures

Mixture identification: GEOLITE GEL (A)

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	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; Aquatic Chronic 2, H411, M-Chronic:1	01-2119456619-26
			Specific Concentration Limits: C ≥ 5%: Eye Irrit. 2 H319 C ≥ 5%: Skin Irrit. 2 H315	
≥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	
≥5-<10 %	Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane	EC:701-477-4	Skin Sens. 1B, H317	01-2119982994-15-0000
≥0.5-<1 %	Titanium dioxide	CAS:13463-67-7 EC:236-675-5	Not classified as hazardous	
<0.0015 %	o methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	01-2119433307-44
			Specific Concentration Limits: $C \ge 10\%$ : STOT SE 1 H370 $3\% \le C < 10\%$ : STOT SE 2 H371	

### **SECTION 4: First aid measures**

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### 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:

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.

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.

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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

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**Production Name** 

Community Occupational Exposure Limits (OEL)			
	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		Long Term: 10 mg/m3 inhalable aerosol Source: EH40/2005 Workplace exposure limits
	NATIONAL		Long Term: 4 mg/m3 respirable aerosol Source: EH40/2005 Workplace exposure limits
	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	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 D	Long Term: 3 mg/m3 TWA mg/m3: (a), Formel / Formal, NIOSH Source: suva.ch/valeurs-limites
Titanium dioxide CAS: 13463-67-7	ACGIH		Long Term: 2.5 mg/m3 (8h) Finescale particles; R; A3 - LRT irr, pneumoconiosis
	NATIONAL	GERMANY	Long Term: 0.3 mg/m3; Short Term: 2.4 mg/m3

Source: TRGS900

GEOLITE GEL (A)

multiplied by the material density;

DFG; Long term and short term: excluding ultrafine particles; respirable fraction;

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NATIONAL BELGIUM Long Term: 10 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: 10 mg/m3

Source: 2021 Code of Practice

NATIONAL IRELAND Long Term: 4 mg/m3

Source: 2021 Code of Practice

NATIONAL ROMANIA Long Term: 10 mg/m3; Short Term: 15 mg/m3

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

NATIONAL SPAIN Long Term: 10 mg/m3

Source: LEP 2022

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

60(Miw), 2x, MAK, A

Source: BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 10 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL DENMARK Long Term: 6 mg/m3

K

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 5 mg/m3

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

NATIONAL FRANCE Long Term: 10 mg/m3

Cancérogène de catégorie 2 Source: INRS outil65

NATIONAL GREECE Long Term: 10 mg/m3

εισπν.

Source: ΦEK 94/A` 13.5.1999

NATIONAL GREECE Long Term: 5 mg/m3

αναπν.

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL LATVIA Long Term: 10 mg/m3

Source: KN325P1

NATIONAL LITHUANIA Long Term: 5 mg/m3

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

NATIONAL NORWAY Long Term: 5 mg/m3

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 10 mg/m3

4), 7)

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 5 mg/m3

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 5 mg/m3

3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 3 mg/m3

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

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Triiron tetraoxide NATIONAL POLAND CAS: 1317-61-9

Long Term: 2.5 mg/m3; Short Term: 5 mg/m3

Source: Dz.U. 2018 poz. 1286

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

Source: EH40/2005 Workplace exposure limits **GREAT** 

**BRITAIN AND NORTHERN IRELAND** 

NATIONAL UNITED Long Term: 2.4 mg/m3

KINGDOM OF Respirable aerosol

Source: EH40/2005 Workplace exposure limits **GREAT** 

**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 D

Source: suva.ch/valeurs-limites

**SUVA** SWITZERLAN Long Term: 4 mg/m3

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

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

Source: NN 1/2021

NATIONAL CROATIA Long Term: 4 mg/m3

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, BGBl. II Nr. 156/2021

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

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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

ачапч

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 5 mg/m3

Ν

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

1

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

6)

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

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

Source: suva.ch/valeurs-limites

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

D 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

methanol CAS: 67-56-1 ACGIH Long Term: 200 ppm (8h); Short Term: 250 ppm

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

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

Кожа

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 250 mg/m3; Short Term: Ceiling - 1000 mg/m3

D, B

Source: Nařízení vlády č. 361-2007 Sb

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

EΗ

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm

A 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

iho

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 260 mg/m3 - 200 ppm; Short Term: 1300 mg/m3 - 1000 ppm

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

Δ

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

0

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

NATIONAL NETHERLAND Long Term: 133 mg/m3

H

ς

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

K, 7)

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

SUVA SWITZERLAN Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm

R/H, SSC, B, SNC / ZNS, INRS NIOSH

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm

KINGDOM OF Sk

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

BRITAIN AND NORTHERN IRELAND

D

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

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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

Āda

Source: KN325P1

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

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

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

epoxipropoxi)phenyl] propane

CAS: 1675-54-3

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

Reaction mass of 2,2'- Exposure Route: Fresh Water; PNEC Limit: 3 µg/l [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

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

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

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

Titanium dioxide CAS: 13463-67-7 Exposure Route: Fresh Water; PNEC Limit: 0.184 mg/l

Exposure Route: Marine water; PNEC Limit: 0.018 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1 mg/kg Exposure Route: Intermittent releases (marine water); PNEC Limit: 100 mg/kg Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/kg

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

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]

CAS: 1675-54-3

propane

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/m<sup>3</sup>

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

Worker Professional: 12.25 mg/m<sup>3</sup>

Reaction mass of 2,2'-Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects [methylenebis(2,1-Worker Professional: 29.39 mg/m<sup>3</sup>; Consumer: 8.7 mg/m<sup>3</sup> phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1phenyleneoxymethylene)]

bis(oxirane) and 2-({2-[4-(oxiran-2-

ylmethoxy)benzyl] phenoxy}methyl)oxirane

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

Titanium dioxide

CAS: 13463-67-7

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

Worker Professional: 10 mg/m<sup>3</sup>

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/m<sup>3</sup>; Consumer: 26 mg/m<sup>3</sup>

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

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

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

Page n. 10 of 24/06/2025 **Production Name** GEOLITE GEL (A) Date

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

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: Solid Colour: Light grey Odour: N.A.

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: > 268 °C (514 °F)

Flash point: > 100°C / 212°F Lower and upper explosion limit: N.A.

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

Density and/or relative density: 1.42 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 % ; 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.

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### 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) The product is classified: Eye Irrit. 2(H319) c) serious eye damage/irritation 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 Not classified

Based on available data, the classification criteria are not met

Not classified h) STOT-single exposure

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-(2,3-

epoxipropoxi)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

Mouse, oral

f) carcinogenicity Genotoxicity Negative

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

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

Reaction mass of 2,2'-

a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

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

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

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

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	f) carcinogenicity	Genotoxicity Negative	Hamster oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 750 mg/kg	
Titanium dioxide	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LC50 Inhalation > 6.82 mg/l	
		LD50 Skin Rat > 2000 mg/kg	
	c) serious eye damage/irritation	Eye Corrosive Negative	
		Eye Irritant No	
	d) respiratory or skin sensitisation	Skin Sensitization Negative	
	i) STOT-repeated exposure	No Observed Adverse Effect Level 1000	
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	n 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	•
	g) reproductive toxicity	Lowest Observed Adverse Effect Level Oral = 1000 mg/kg	Mouse

### 11.2. Information on other hazards

### **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

### **SECTION 12: Ecological information**

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

### 12.1. Toxicity

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

Eco-Toxicological Information:

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 properties of the components		
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
Reaction mass of 2,2'- [methylenebis(2,1- phenyleneoxymethylene)]bis (oxirane) and 2,2'- [methylenebis(4.1-	EINECS: 701- 263-0	a) Aquatic acute toxicity: LC50 Fish Leuciscus idus = 2.54 mg/L 96h

24/06/2025 GEOLITE GEL (A) Date Production Name Page n. 13 of 18 Titanium dioxide

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 2.55 mg/L 48h b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 0.3 mg/L -

21days

a) Aquatic acute toxicity: EC50 Algae Selenastrum capricornutum = 1.8 mg/L

a) Aquatic acute toxicity: NOEC Sludge activated sludge = 100 mg/L 3h

CAS: 13463-67-7 - EINECS:

236-675-5

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (Cavedano

americano) > 1000 mg/L 96h

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata (alghe cloroficee) > 100 mg/L 72h

a) Aquatic acute toxicity: NOEC Algae = 5600 mg/L

a) Aquatic acute toxicity: EC50 Daphnia | Daphnia magna (Pulce d'acqua

grande) > 100 mg/L 48h

methanol CAS: 67-56-1 a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 15400 mg/L 96h

EINECS: 200-659-6 - INDEX: 603-001-00-X

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

mg/L 96h OECD 201 Guideline.

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

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

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### 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)
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

### Readily biodegradable methanol

### 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value Notes:
bis-[4-(2,3- epoxipropoxi)phenyl]propane	Bioaccumulative	BCF - Bioconcentrantion factor	31.000
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
methanol	Not bioaccumulative	BCF - Bioconcentrantion factor	< 10

### 12.4. Mobility in soil

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### 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. 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, SOLID, 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, SOLID, 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, SOLID, 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 kg ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 956 IATA-Cargo Aircraft: 956

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A179 A197 A215

Sea (IMDG):

IMDG-Stowage and handling: Category A SW23

IMDG-Segregation: -

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IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 966 967 969

### 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: None.

Restrictions related to the substances contained: 40, 69, 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 11

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

### 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

### **SECTION 16: Other information**

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H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H370	Causes damage to organs.	
H411	Toxic to aquatic life with long lasting effect	S.
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
3.2/2	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
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category ${f 1}$
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
Classification -	and muses down or and the devices the streets:	estion for mixtures asserting to Degulation (EC) 1373/30

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

(EC) Nr. 1272/2008	Classification procedu	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1B, H317	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

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

Main bibliographic sources:

Code

H225

H301

H311

**Description** 

Toxic if swallowed.

Toxic in contact with skin.

Highly flammable liquid and vapour.

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

 ${\tt ADR: European \ Agreement \ concerning \ the \ International \ Carriage \ of \ Dangerous \ Goods \ by \ Road.}$ 

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.

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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

 $\hbox{RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.}$ 

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

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## 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)
<b>Product Categories</b>	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 <sup>3</sup> (%):

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 m<sup>3</sup>/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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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.