

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 B

Date of first edition: 10/11/2021 Safety Data Sheet dated 03/07/2025

version 6

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

1.1. Product identifier

Mixture identification:

Trade name: GEOLITE GEL B Trade code: S100B0119 23

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)

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.

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

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P273 Avoid release to the environment.

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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

8 to do. Continue rinsing.

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

Contains

Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

amines, polyethylenepoly-; HEPA

3-aminopropyldimethylamine

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: GEOLITE GEL B

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	amines, polyethylenepoly-; HEPA	CAS:68131-73-7 EC:268-626-9 Index:612-121-00-1	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312, M-Chronic:1	01-2119485823-28
≥10-<20 %	Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	CAS:68082-29-1 EC:500-191-5	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1A, H317, M-Chronic:1	01-2119972320-44
≥0.5-<1 %	3-aminopropyldimethylamine	CAS:109-55-7 EC:203-680-9 Index:612-061-00-6	Flam. Liq. 3, H226; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1B, H317; STOT SE 3, H335	

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:

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).

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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.

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)

OEL Type Country Occupational Exposure Limit

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Limestone CAS: 1317-65-3

Long Term: 10 mg/m3 NATIONAL BULGARIA

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL ESTONIA Long Term: 10 mg/m3

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

NATIONAL ESTONIA Long Term: 5 mg/m3

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

NATIONAL GREECE Long Term: 10 mg/m3

εισπν.

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL GREECE Long Term: 5 mg/m3

αναπν.

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL SPAIN Long Term: 10 mg/m3

(1) inhalable aerosol Source: LEP 2022

Long Term: 10 mg/m3 NATIONAL HUNGARY

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

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Inhalable fraction

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

BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 4 mg/m3

KINGDOM OF Respirable fraction

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

BRITAIN AND NORTHERN IRELAND

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: 10 mg/m3

Source: 2021 Code of Practice

NATIONAL IRELAND Long Term: 4 mg/m3

Source: 2021 Code of Practice

SWITZERLAN Long Term: 3 mg/m3 NATIONAL D

(1) respirable aerosol

Source: suva.ch/valeurs-limites

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

NATIONAL IRELAND

Source: 2021 Code of Practice

Long Term: 4 mg/m3 Respirable fraction

Source: 2021 Code of Practice

NATIONAL UNITED

Long Term: 10 mg/m3

KINGDOM OF inhalable aerosol

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

BRITAIN AND NORTHERN **IRELAND**

NATIONAL UNITED

Long Term: 4 mg/m3

KINGDOM OF respirable aerosol

GREAT

Source: EH40/2005 Workplace exposure limits

BRITAIN AND NORTHERN **IRELAND**

NATIONAL CROATIA

Long Term: 10 mg/m3

U

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NATIONAL CROATIA Long Term: 4 mg/m3

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

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 3 mg/m3

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

Source: suva.ch/valeurs-limites

Predicted No Effect Concentration (PNEC) values

Exposure Route: Fresh Water; PNEC Limit: 1.6 µg/l amines.

polyethylenepoly-; HEPA CAS: 68131-73-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 16 µg/l

Exposure Route: Marine water; PNEC Limit: 1.6 µg/l

Exposure Route: Fresh Water; PNEC Limit: 4.34 μg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.19 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.14 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.14 mg/kg

Exposure Route: Soil; PNEC Limit: 10 mg/kg

Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 43.4 µg/l

Exposure Route: Marine water; PNEC Limit: 434 ng/L

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.84 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 434.02 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 43.4 mg/kg

Exposure Route: Soil; PNEC Limit: 86.78 mg/kg Exposure Route: Fresh Water; PNEC Limit: 72.8 μg/l

aminopropyldimethylamin

CAS: 109-55-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 340 µg/l

Exposure Route: Marine water; PNEC Limit: 7.28 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 69.5 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 735 µg/kg Exposure Route: Marine water sediments; PNEC Limit: 73.5 µg/kg

Exposure Route: Soil; PNEC Limit: 104 µg/kg

Derived No Effect Level (DNEL) values

polyethylenepoly-; HEPA CAS: 68131-73-7

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

Worker Professional: 1.59 mg/m³; Consumer: 0.46 mg/m³

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

Worker Professional: 8550 mg/m³; Consumer: 2542 mg/m³

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

Consumer: 0.65 mg/kg

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

Consumer: 32 mg/kg

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

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Worker Professional: 0.91 mg/m³; Consumer: 0.4 mg/kg

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

Worker Professional: 0.044 mg/cm²; Consumer: 0.68 mg/cm²

Exposure Route: Human Dermal; Exposure Frequency: Short Term (acute)

Consumer: 1.59 mg/cm²

Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 3.9 mg/m³; Consumer: 970 μg/m³

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

Worker Professional: 1.1 mg/kg; Consumer: 560 μg/kg

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

Consumer: 560 µg/kg

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

aminopropyldimethylamin Worker Professional: 1.2 mg/m³

e CAS: 109-55-7

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

Worker Professional: 1.2 mg/m³

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 ≥ 0.35 mm; breakthrough time ≥ 480 min.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid (ASTM D4359-90)

Colour: Beige

Odour: Like: Amines Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

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

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: 1.30 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 = 0.58 %; 7.51 g/l

Particle characteristics:

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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.

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

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

Not classified i) STOT-repeated exposure

Based on available data, the classification criteria are not met

Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

amines, polyethylenepoly-; HEPA a) acute toxicity LD50 Oral Rat = 1716.2 mg/kg

b) skin corrosion/irritation Skin Corrosive Rabbit Positive

c) serious eye Eye Irritant Rabbit Yes

damage/irritation

d) respiratory or skin sensitisation

Skin Sensitization Guineapig Positive

LD50 Skin Rabbit = 1465.4 mg/kg 24h

f) carcinogenicity Genotoxicity Negative

Mouse intraperitoneal rout

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Fatty acids, c18-unsatd., a) acute toxicity dimers, oligomeric

damage/irritation

LD50 Oral Rat > 2000 mg/kg

reaction products with tall-oil fatty acids and triethylenetetramine

LD50 Skin Rat > 2000 mg/kg 24h

c) serious eye Eye Irritant Yes 1h

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Eye Corrosive Rabbit Positive

d) respiratory or skin sensitisation

Skin Sensitization Positive Mouse

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 1000

mg/kg

3- a) acute toxicity LD50 Oral Rat = 410 mg/kg

aminopropyldimethylamin

LC50 Inhalation Vapour Rat > 4.31 mg/l 4h

b) skin corrosion/irritation Skin Corrosive Rabbit Positive

c) serious eye damage/irritation

Eye Corrosive Rabbit Positive

f) carcinogenicity Genotoxicity Negative 24h Mouse intraperitoneal rout

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

mg/kg

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:

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

and the residence of the components			
Component	Ident. Numb.	Ecotox Data	
amines, polyethylenepoly-; HEPA	CAS: 68131-73- 7 - EINECS: 268-626-9 - INDEX: 612- 121-00-1	a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 100 mg/L 96h EU Method C.1 (Acute Toxicity for Fish)	
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 2.2 mg/L 48h EU Method C.2 (Acute Toxicity for Daphnia)	

a) Aquatic acute toxicity: EC50 Algae Selenastrum capricornutum = 0.23

a) Aquatic acute toxicity: EC50 Algae Selenastrum capricornutum = 0.23 mg/L 72h OECD TG 201

c) Bacteria toxicity: EC50 nitrifying bacteria = 319.3 mg/L - 2h

d) Terrestrial toxicity: NOEC Worm Eisenia fetida = 1000 mg/kg OECD Guideline 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei)) - 56days

Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

CAS: 68082-2 1 - EINECS: 500-191-5

CAS: 68082-29- a) Aquatic acute toxicity: LC50 Fish = 10 mg/L 96h

a) Aquatic acute toxicity: EC100 Daphnia = 10 mg/L 24h a) Aquatic acute toxicity: EC50 Algae = 4.34 mL/L 72h

a) Aquatic acute toxicity: EC50 Algae = 4.34 mL/L /2h

3-aminopropyldimethylamine CAS: 109-55-7 - a) Aquatic acute toxicity: LC50 Fish Leuciscus idus = 122 mg/L 96h

EINECS: 203-680-9 - INDEX: 612-061-00-6

CAS: 109-55-7 - a) Aquatic acute toxicity: LC50 Fish Leuciscus idus = 122 mg/L 96h OECD TG EINECS: 203- 203

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 59.5 mg/L 48h EEC method C.2

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 3.64 mg/L -

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a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 34

mg/L 72h OECD 201

a) Aquatic acute toxicity: EC50 Sludge activated sludge = 94.5 mg/L

12.2. Persistence and degradability

Persitence/Degradability: Value Notes: Component **Test** Non-readily biodegradable OECD 301D amines, polyethylenepoly-; HEPA Oxygen consumption Fatty acids, c18-unsatd., dimers, Non-readily biodegradable **OECD 301 D** oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3-aminopropyldimethylamine Readily biodegradable 100.000 15days

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
Fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Bioaccumulative	BCF - Bioconcentrantion factor	77.400	L/kg ww; QSAR
3-aminopropyldimethylamine	Bioaccumulative	BCF - Bioconcentrantion factor	3.160	L/kg ww

12.4. Mobility in soil

N.A.

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

3259

14.2. UN proper shipping name

ADR-Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (amines, polyethylenepoly-; HEPA) IATA-Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (amines, polyethylenepoly-; HEPA) IMDG-Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S. (amines, polyethylenepoly-; HEPA)

14.3. Transport hazard class(es)

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

14.4. Packing group

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

IMDG-Packing group: III

14.5. Environmental hazards

Most important toxic component: amines, polyethylenepoly-; HEPA

Marine pollutant: Yes

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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): 3 (E)

ADR Limited Quantities: 5 kg ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 860 IATA-Cargo Aircraft: 864

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage and handling: Category A IMDG-Segregation: SG35 SGG18

IMDG-Subsidiary hazards: IMDG-Special Provisions: 223 274

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: None.

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)

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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 8A

SVHC Substances:

Code

H226

11202

3.8/3

4.1/C1

4.1/C2

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:

amines, polyethylenepoly-; HEPA

Description

STOT SE 3

Aquatic Chronic 1

Aquatic Chronic 2

Flammable liquid and vapour.

SECTION 16: Other information

H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage	e.
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H410	Very toxic to aquatic life with long lasting	effects.
H411	Toxic to aquatic life with long lasting effec	ts.
Code	Hazard class and hazard category	Description
Code 2.6/3	Hazard class and hazard category Flam. Liq. 3	Description Flammable liquid, Category 3
	5 ,	•
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
2.6/3 3.1/4/Dermal	Flam. Liq. 3 Acute Tox. 4	Flammable liquid, Category 3 Acute toxicity (dermal), Category 4
2.6/3 3.1/4/Dermal 3.1/4/Oral	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4	Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4
2.6/3 3.1/4/Dermal 3.1/4/Oral 3.2/1B	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B	Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B
2.6/3 3.1/4/Dermal 3.1/4/Oral 3.2/1B 3.2/2	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Skin Irrit. 2	Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin irritation, Category 2
2.6/3 3.1/4/Dermal 3.1/4/Oral 3.2/1B 3.2/2 3.3/1	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Skin Irrit. 2 Eye Dam. 1	Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (oral), Category 4 Skin corrosion, Category 1B Skin irritation, Category 2 Serious eye damage, Category 1

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

Specific target organ toxicity — single exposure, Category 3

Chronic (long term) aquatic hazard, category 1 Chronic (long term) aquatic hazard, category 2

(EC) Nr. 1272/2008	classification procedure
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, 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:

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

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 Production Name
 GEOLITE GEL B
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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 quarantee 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.

TLV: Threshold Limiting Value.

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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 13: Disposal considerations
- SECTION 15: Regulatory information
- SECTION 16: Other information

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Exposure Scenario, 10/08/2021

Substance identity			
	Amines, polyethylenepoly-; hepa		
CAS No.	68131-73-7		
INDEX No.	612-121-00-1		
EINECS No.	268-626-9		
Registration number	01-2119485823-28		

Table of contents

- 1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)
- 2. **ES 2** Widespread use by professional workers; Adhesives, sealants (PC1)

1. ES 1 Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1 1	TIT	. – .	$\Gamma \cap T$	100
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Exposure Scenario name	Professional application of coatings and inks
Date - Version	10/08/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Coatings and paints, thinners, paint removers (PC9a)

Environment Contributing Scenario

CS1	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Handling and dilution of concentrates	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 concentrations up to 25 %

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

Amounts used:

Daily amount per site = 2114 kg/day

Release type: Continuous release

Emission days: 220 days per year

Other conditions affecting environmental exposure

Local freshwater dilution factor: 10

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 concentrations up to 25 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 15 min

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

Personal protection

Wear suitable respiratory protection. Wear suitable gloves tested to EN374.

Inhalation - minimum efficiency of: 95 %

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 concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 60 min

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Inhalation - minimum efficiency of: 90 %

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

Personal protection

Wear suitable gloves tested to EN374.

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 concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 60 min

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Inhalation - minimum efficiency of: 90 %

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

Personal protection

Wear suitable gloves tested to EN374.

1.2. CS5: Worker Contributing Scenario: Handling and dilution of concentrates (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 concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 8 h

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

Personal protection

Wear suitable gloves tested to EN374.

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	7.92E-05 mg/L	EUSES	0.05
marine water	7.9E-06 mg/L	EUSES	0.005
freshwater sediment	0.0795 mg/kg dry weight	EUSES	0.568
marine sediment	0.00792 mg/kg dry weight	EUSES	0.057
soil	0.0118 mg/kg dry weight	EUSES	0.001

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.068 mg/kg bw/day	ECETOC TRA worker v2.0	0.12
inhalative, systemic, long-term	0.456 mg/m ³	ECETOC TRA worker v2.0	0.457
combined routes	N/A	N/A	0.577
inhalative, local, short-term	0.913 mg/m³	ECETOC TRA worker v2.0	< 0.001

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.082 mg/kg bw/day	ECETOC TRA worker v2.0	0.144
inhalative, systemic, long-term	0.457 mg/m ³	ECETOC TRA worker v2.0	0.229
combined routes	N/A	N/A	0.373
inhalative, local, short-term	0.914 mg/m³	ECETOC TRA worker v2.0	< 0.001

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)
dermal, systemic, long-term	0.214 mg/kg bw/day	ECETOC TRA worker v2.0	0.376
inhalative, systemic, long-term	0.121 mg/m ³	ECETOC TRA worker v2.0	0.122
combined routes	N/A	N/A	0.498
inhalative, local, short-term	0.243 mg/m³	ECETOC TRA worker v2.0	< 0.001

1.3. CS5: Worker Contributing Scenario: Handling and dilution of concentrates (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.14 mg/kg bw/day	ECETOC TRA worker v2.0	0.248
inhalative, systemic, long-term	0.76 mg/m ³	ECETOC TRA worker v2.0	0.076
combined routes	N/A	N/A	0.324
inhalative, local, short-term	1.52 mg/m³	ECETOC TRA worker v2.0	< 0.001

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.

2. ES 2 Widespread use by professional workers; Adhesives, sealants (PC1)

2 1	TITL		CEC	TIA	N
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Exposure Scenario name	Use in rigid foams, coatings, adhesives and sealants
Date - Version	10/08/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Adhesives, sealants (PC1)

Environment Contributing Scenario

CS1	ERC8a - ERC8d
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Handling and dilution of concentrates	PROC19

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

Environmenta	l re	lease
categories		

Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)

Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers concentrations up to 25 %

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

Amounts used:

Daily amount per site = 15500 kg/day

Release type: Continuous release

Emission days: 300 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Pre-treatment of waste water by neutralization	Water - minimum efficiency of: 53.1 %

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant STP effluent (m³/day): 2000

Other conditions affecting environmental exposure

Local freshwater dilution factor: 1000

2.2. 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 concentrations up to 25 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 15 min

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

Personal protection

Wear suitable respiratory protection. Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: 95 %

2.2. 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 concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 60 min

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

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: 95 %

2.2. 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 concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 60 min

Technical and organisational conditions and measures

Technical and organisational measures

Provide extract ventilation to points where emissions occur.

Inhalation - minimum efficiency of: 90 %

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

Personal protection

Wear suitable gloves tested to EN374.

2.2. CS5: Worker Contributing Scenario: Handling and dilution of concentrates (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 concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 8 h

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

Personal protection

Wear suitable gloves tested to EN374.

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

Exposure level	Calculation method	Risk Characterization Ratio (RCR)
6.74E-05 mg/L	Other measured data	0.042
6.7E-06 mg/L	Other measured data	0.004
0.0677 mg/kg dry weight	Other measured data	0.483
0.00674 mg/kg dry weight	Other measured data	0.048
0.0118 mg/kg dry weight	Other measured data	0.001
	6.74E-05 mg/L 6.7E-06 mg/L 0.0677 mg/kg dry weight 0.00674 mg/kg dry weight	6.74E-05 mg/L 6.7E-06 mg/L Other measured data 0.0677 mg/kg dry weight Other measured data 0.00674 mg/kg dry weight Other measured data

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

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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combined routes	N/A	N/A	0.577
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Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.082 mg/kg bw/day	ECETOC TRA worker v2.0	0.144
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Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.214 mg/kg bw/day	ECETOC TRA worker v2.0	0.376
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inhalative, local, short-term	0.243 mg/m ³	ECETOC TRA worker v2.0	< 0.001

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Exposure level	Calculation method	Risk Characterization Ratio (RCR)
0.14 mg/kg bw/day	ECETOC TRA worker v2.0	0.248
0.76 mg/m³	ECETOC TRA worker v2.0	0.076
N/A	N/A	0.324
1.52 mg/m³	ECETOC TRA worker v2.0	< 0.001
	0.14 mg/kg bw/day 0.76 mg/m ³ N/A	0.14 mg/kg bw/day

2.4 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.