

SOUS COUCHE SC20 - BASE - 3406195100B



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : SOUS COUCHE SC20 - BASE
Product code : 3406195100B.
UFI : TPF0-V0H3-C00U-8YU0

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

1.3. Details of the supplier of the safety data sheet

Registered company name : SOROMAP PEINTURES VERNIS.
Address : 1, RUE MAURICE MALLET Z.I. DE BELIGON.17300.ROCHEFORT SUR MER.FRANCE.
Telephone : 05.46.88.36.10. Fax : 05.46.88.36.15.
contact@soromap.com
www.soromap.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).
Skin irritation, Category 2 (Skin Irrit. 2, H315).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS07



GHS09

Signal Word :

WARNING

Product identifiers :

EC 701-263-0

EC 216-823-5

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-(2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY)METHYL]OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE
REACTION MASS OF FATTY ACIDS, TALL-OIL, COMPDS. WITH OLEYLAMINE AND FATTY ACIDS, C18-UNSATD., TRIMERS, COMPDS. WITH OLEYLAMINE

Additional labeling :

EUH205

Contains epoxy constituents. May produce an allergic reaction.

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Hazard statements :

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| 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 - General :

| | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
|------|---|

Precautionary statements - Prevention :

| | |
|------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ... |

Precautionary statements - Response :

| | |
|--------------------|--|
| P302 + P352 | IF ON SKIN: Wash with plenty of water/... |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Precautionary statements - Disposal :

| | |
|------|--|
| P501 | Dispose of contents/container by approved organization |
|------|--|

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contains substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

| Identification | (EC) 1272/2008 | Note | % |
|---|---|------|--------------------|
| EC: 701-263-0 REACH: 01-2119454392-40 REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY}METHYL)OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE | GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | | 10 \leq x % < 25 |
| CAS: 1675-54-3 EC: 216-823-5 REACH: 01-2119456619-26 BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE | GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 | | 10 \leq x % < 25 |
| CAS: 7727-43-7 BARIUM SULFATE | | [1] | 10 \leq x % < 25 |

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| | | | |
|---|--|------------|----------------|
| EC: 918-668-5 REACH: 01-2119455851-35-xxxx HYDROCARBONS, C9, AROMATICS | GHS09, GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH:066 | | 2.5 ≤ x % < 10 |
| CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17 DIOXYDE DE TITANE | | [1] | 2.5 ≤ x % < 10 |
| CAS: 107-98-2 EC: 203-539-1 REACH: 02-2119752510-47-0000 MONOPROPYLENE GLYCOL METHYL ETHER | GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 | [1] | 2.5 ≤ x % < 10 |
| CAS: 71-36-3 EC: 200-751-6 BUTAN-1-OL | GHS07, GHS05, GHS02 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | [1] | 0 ≤ x % < 1 |
| CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29 2-METHOXY-1-METHYLETHYL ACETATE | GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 | [1] | 0 ≤ x % < 1 |
| REACH: 01-2120101675-63 REACTION MASS OF FATTY ACIDS, TALL-OIL, COMPDS. WITH OLEYLAMINE AND FATTY ACIDS, C18-UNSATD., TRIMERS, COMPDS. WITH OLEYLAMINE | GHS07, GHS08 Wng Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Chronic 3, H412 | | 0 ≤ x % < 1 |
| CAS: 7631-86-9 EC: 231-545-4 REACH: 01-2119379499-16-0000 SILICA | | [1] | 0 ≤ x % < 1 |
| INDEX: 603-106-00-0 CAS: 1589-47-5 EC: 216-455-5 REACH: 02-2119752454-37-0000 2-METHOXYPROPANOL | GHS02, GHS08, GHS05, GHS07 Dgr Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 | [1] [2] | 0 ≤ x % < 1 |

Specific concentration limits:

| Identification | Specific concentration limits | ATE |
|---|-------------------------------|--|
| CAS: 1675-54-3 EC: 216-823-5 REACH: 01-2119456619-26 BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE | | dermal: ATE = 23000 mg/kg BW oral: ATE = 15000 mg/kg BW |
| EC: 918-668-5 REACH: 01-2119455851-35-xxxx HYDROCARBONS, C9, AROMATICS | | oral: ATE = 3592 mg/kg BW |

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| | | |
|--|--|-----------------------------|
| CAS: 107-98-2 EC: 203-539-1 REACH: 02-2119752510-47-0000 MONOPROPYLENE GLYCOL METHYL ETHER | | oral: ATE = 4016 mg/kg BW |
| CAS: 71-36-3 EC: 200-751-6 BUTAN-1-OL | | dermal: ATE = 3430 mg/kg BW |

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

In the event of an allergic reaction, seek medical attention.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

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Unsuitable methods of extinction

In the event of a fire, do not use :
- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

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Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS | VME-mg/m ³ : | VME-ppm : | VLE-mg/m ³ : | VLE-ppm : | Notes : |
|----------|-------------------------|-----------|-------------------------|-----------|---------|
| 107-98-2 | 375 | 100 | 568 | 150 | Peau |
| 108-65-6 | 275 | 50 | 550 | 100 | Peau |

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

| CAS | VME : | VME : | Excess | Notes |
|-----------|-------|----------------------------------|--------|-------|
| 107-98-2 | | 100 ppm 370 mg/m ³ | | 2(I) |
| 71-36-3 | | 100 ppm 310 mg/m ³ | | 1(I) |
| 108-65-6 | | 50 ppm 270 mg/m ³ | | 1(I) |
| 7631-86-9 | | 4E mg/m ³ | | |
| 1589-47-5 | | 5 ppm 19 mg/m ³ | | 2(I) |

- France (INRS - ED984 / 2020-1546) :

| CAS | VME-ppm : | VME-mg/m ³ : | VLE-ppm : | VLE-mg/m ³ : | Notes : | TMP No : |
|------------|-----------|-------------------------|-----------|-------------------------|---------|----------|
| 13463-67-7 | - | 10 | - | - | - | - |
| 107-98-2 | 50 | 188 | 100 | 375 | * | 84 |
| 71-36-3 | - | - | 50 | 150 | - | 84 |
| 108-65-6 | 50 | 275 | 100 | 550 | - | - |

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|------------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 7727-43-7 | 4 mg/m ³ | | | | |
| 13463-67-7 | 4 mg/m ³ | | | | |
| 107-98-2 | 100 ppm 375 mg/m ³ | 150 ppm 560 mg/m ³ | | Sk | |

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| | | | | | |
|----------|---------------------------------|----------------------------------|--|----|--|
| 71-36-3 | | 50 ppm 154 mg/m ³ | | Sk | |
| 108-65-6 | 50 ppm 274 mg/m ³ | 100 ppm 548 mg/m ³ | | Sk | |

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

REACTION MASS OF FATTY ACIDS, TALL-OIL, COMPDS. WITH OLEYLAMINE AND FATTY ACIDS, C18-UNSATD., TRIMERS, COMPDS. WITH OLEYLAMINE

Final use:Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
0.43 mg/kg body weight/dayInhalation.
Long term systemic effects.
0.75 mg of substance/m3**Consumers.**Ingestion.
Long term systemic effects.
0.11 mg/kg body weight/dayDermal contact.
Long term systemic effects.
0.21 mg/kg body weight/dayDermal contact.
Long term local effects.
0.0113 mg of substance/cm2Inhalation.
Long term systemic effects.
0.37 mg of substance/m3**BUTAN-1-OL (CAS: 71-36-3)****Final use:**Exposure method:
Potential health effects:
DNEL :**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Workers.**Inhalation.
Long term local effects.
310 mg of substance/m3**Consumers.**Ingestion.
Long term systemic effects.
3.125 mg/kg body weight/dayInhalation.
Long term local effects.
55 mg of substance/m3**MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)****Final use:**Exposure method:
Potential health effects:
DNEL :

Exposure method:

Workers.Dermal contact.
Long term systemic effects.
50.6 mg/kg body weight/day

Inhalation.

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Potential health effects:
DNEL : Long term systemic effects.
369 mg of substance/m3

Exposure method:
Potential health effects:
DNEL : Inhalation.
Short term local effects.
553.5 mg of substance/m3

Final use:
Exposure method:
Potential health effects:
DNEL : **Consumers.**
Ingestion.
Long term systemic effects.
3.3 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term systemic effects.
18.1 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
43.9 mg of substance/m3

HYDROCARBONS, C9, AROMATICS

Final use:
Exposure method:
Potential health effects:
DNEL : **Workers.**
Dermal contact.
Long term systemic effects.
25 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
150 mg of substance/m3

Final use:
Exposure method:
Potential health effects:
DNEL : **Consumers.**
Ingestion.
Long term systemic effects.
11 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term systemic effects.
11 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
32 mg of substance/m3

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE (CAS: 1675-54-3)

Final use:
Exposure method:
Potential health effects:
DNEL : **Workers.**
Dermal contact.
Long term systemic effects.
0.75 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
4.93 mg of substance/m3

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Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Short term systemic effects.
0.5 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
0.0893 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
0.87 mg of substance/m3

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND
[2-({2-[4-(OXIRAN-2-YLMETHOXY)BENZYL] PHENOXY}METHYL)OXIRANE AND
[2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
104.15 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
29.39 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects.
6.25 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
62.5 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
8.7 mg of substance/m3

Predicted no effect concentration (PNEC):

REACTION MASS OF FATTY ACIDS, TALL-OIL, COMPDS. WITH OLEYLAMINE AND FATTY ACIDS, C18-UNSATD.,
TRIMERS, COMPDS. WITH OLEYLAMINE

Environmental compartment:
PNEC : Air.
0.0973 mg/l

Environmental compartment:
PNEC : Fresh water.
0.194 mg/l

Environmental compartment:
PNEC : Sea water.
0.0194 mg/l

Environmental compartment:
PNEC : Waste water treatment plant.
100 mg/l

BUTAN-1-OL (CAS: 71-36-3)

Environmental compartment: Soil.

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| | |
|--------------------------------------|---|
| PNEC : | 0.015 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 0.082 mg/l |
| Environmental compartment: PNEC : | Sea water. 0.0082 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 2.25 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 0.178 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 0.0178 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 2476 mg/l |

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

| | |
|--------------------------------------|--|
| Environmental compartment: PNEC : | Soil. 4.59 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 10 mg/l |
| Environmental compartment: PNEC : | Sea water. 1 |
| Environmental compartment: PNEC : | Intermittent waste water. 100 |
| Environmental compartment: PNEC : | Fresh water sediment. 52.3 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 5.2 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 100 mg/l |

DIOXYDE DE TITANE (CAS: 13463-67-7)

| | |
|--------------------------------------|--|
| Environmental compartment: PNEC : | Fresh water. 0.127 mg/l |
| Environmental compartment: PNEC : | Sea water. 1 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 0.61 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 1000 mg/kg |
| Environmental compartment: | Marine sediment. |

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PNEC : 100 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 100

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE (CAS: 1675-54-3)

Environmental compartment: Soil.
PNEC : 0.065 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.006 mg/lEnvironmental compartment: Sea water.
PNEC : 0.001 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 0.341 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 0.034 mg/kgEnvironmental compartment: Waste water treatment plant.
PNEC : 10 mg/lREACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND
[2-({2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY}METHYL)OXIRANE AND
[2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANEEnvironmental compartment: Soil.
PNEC : 0.237 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.003 mg/lEnvironmental compartment: Sea water.
PNEC : 0 mg/lEnvironmental compartment: Intermittent waste water.
PNEC : 0.025 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 0.294 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 0.029 mg/kgEnvironmental compartment: Waste water treatment plant.
PNEC : 10 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

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Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Viscous liquid.

Colour

Unspecified

Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash Point : 36.00 °C.

Auto-ignition temperature

Self-ignition temperature : Not specified.

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Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Insoluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

Density and/or relative density

Density : 1.50

Relative vapour density

Vapour density : Not stated.

9.2. Other information

VOC (g/l) : 256.09

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

May cause an allergic reaction by skin contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and a respiratory tract sensitiser as well as an irritant.

Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin

Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.

11.1.1. Substances**Acute toxicity :**

BUTAN-1-OL (CAS: 71-36-3)

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 = 3430 mg/kg

Species : Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Oral route :

LD50 = 4016 mg/kg

Species : Rat

Dermal route :

LD50 > 2000 mg/kg

Species : Rabbit

Species : Rat

DIOXYDE DE TITANE (CAS: 13463-67-7)

Oral route :

LD50 > 5000 mg/kg

Species : Rat

OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Dermal route :

LD50 > 2000 mg/kg

Inhalation route (Dusts/mist) :

LC50 > 4.26 mg/l

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

HYDROCARBONS, C9, AROMATICS

Oral route :

LD50 = 3592 mg/kg

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 > 3160 mg/kg

Species : Rabbit

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OECD Guideline 402 (Acute Dermal Toxicity)

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE (CAS: 1675-54-3)

Oral route : LD50 = 15000 mg/kg
Species : RatDermal route : LD50 = 23000 mg/kg
Species : RabbitREACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND
[2-({2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY}METHYL)OXIRANE AND
[2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANEOral route : LD50 > 5000 mg/kg
Species : RatDermal route : LD50 > 2000 mg/kg
Species : Rat**Skin corrosion/skin irritation :**

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Species : Rabbit

DIOXYDE DE TITANE (CAS: 13463-67-7)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation :

BUTAN-1-OL (CAS: 71-36-3)

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
OECD Guideline 406 (Skin Sensitisation)

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
Species : Others

DIOXYDE DE TITANE (CAS: 13463-67-7)

Local lymph node stimulation test : Non-Sensitiser.
OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)**Germ cell mutagenicity :**

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Mutagenesis (in vitro) : Negative.

DIOXYDE DE TITANE (CAS: 13463-67-7)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.

BUTAN-1-OL (CAS: 71-36-3)

No mutagenic effect.

Mutagenesis (in vivo) : Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) : Negative.

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OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity :

BUTAN-1-OL (CAS: 71-36-3)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

11.1.2. Mixture**Respiratory or skin sensitisation :**

Contains epoxy compounds. May cause an allergic reaction.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 7631-86-9 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 1675-54-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity**12.1.1. Substances**

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Fish toxicity :

LC50 = 6812 mg/l

Species : *Leuciscus idus*

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 23500 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

HYDROCARBONS, C9, AROMATICS

Fish toxicity :

LC50 = 9.2 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 3.2 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 2.75 mg/l

Species : *Pseudokirchnerella subcapitata*

Duration of exposure : 72 h

BUTAN-1-OL (CAS: 71-36-3)

Fish toxicity :

LC50 = 1376 mg/l

Species : *Pimephales promelas*

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

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Crustacean toxicity : EC50 = 1328 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 4.1 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity : ECr50 = 225 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

DIOXYDE DE TITANE (CAS: 13463-67-7)

Fish toxicity : LC50 > 10000 mg/l
Species : Cyprinodon variegatus
Duration of exposure : 96 h

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE (CAS: 1675-54-3)

Fish toxicity : LC50 = 2 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 1.8 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 = 11 mg/l
Duration of exposure : 72 h

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND
[2-({2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY}METHYL)OXIRANE AND
[2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE

Fish toxicity : LC50 = 2.54 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 2.55 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 = 1.8 mg/l
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability**12.2.1. Substances**

BUTAN-1-OL (CAS: 71-36-3)

Biodegradability : Rapidly degradable.

MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)

Biodegradability : Rapidly degradable.

SOUS COUCHE SC20 - BASE - 3406195100B**HYDROCARBONS, C9, AROMATICS**

Biodegradability : Rapidly degradable.

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE (CAS: 1675-54-3)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-(2-[4-(OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY)METHYL]OXIRANE AND [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential**12.3.1. Substances****BUTAN-1-OL (CAS: 71-36-3)**Octanol/water partition coefficient : log K_{ow} = 1
OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)**MONOPROPYLENE GLYCOL METHYL ETHER (CAS: 107-98-2)**Octanol/water partition coefficient : log K_{ow} = 0.37

Bioaccumulation : BCF < 100

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

14.1. UN number or ID number

1263

14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|-------------|----|------|--------|
| | 3 | F1 | III | 3 | 30 | 5 L | 163 367 650 | E1 | 3 | D/E |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage Handling | Segregation |
|------|-------|---------|----------|-----|----------|-----------------|----|------------------|-------------|
| | 3 | - | III | 5 L | F-E. S-E | 163 223 367 955 | E1 | Category A | - |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|-------|-------------|----|
| | 3 | - | III | 355 | 60 L | 366 | 220 L | A3 A72 A192 | E1 |
| | 3 | - | III | Y344 | 10 L | - | - | A3 A72 A192 | E1 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

- Container information:

No data available.

- Particular provisions :

No data available.

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- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360D | May damage the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure . |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

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GHS02 : Flame

GHS07 : Exclamation mark

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.