



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 : SD 7103 ISOBOND
Product code : 2300.
HARDENER
UFI : U276-F0C1-P00D-URJN

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

Recommended use : Hardener
Uses advised against : data not available

1.3. Details of the supplier of the safety data sheet

Registered company name: Suter Kunststoffe AG
Address: Aefligenstrasse 3, CH-3312 Fraubrunnen
Telephone: +41 (0)31 763 60 60 Fax : +41 (0)31 763 60 61
e-mail: info@swiss-composite.ch Site web: www.swiss-composite.ch

1.4. Emergency telephone number :

ToxInfo Suisse, Tel. 145, International +41 (0)44 251 51 51

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).
Skin corrosion, Category 1B (Skin Corr. 1B, H314).
Serious eye damage, Category 1 (Eye Dam. 1, H318).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

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

Hazard pictograms :



GHS05

GHS09

GHS08

GHS07

Signal Word :

DANGER

Product identifiers :

EC 500-191-5

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE

EC 217-168-8

4,4' METHYLENEBIS (CYCLOHEXYLAMINE)

EC 603-894-6 COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED
 EC 292-588-2 AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION
 EC 203-950-6 3,6-DIAZAOCTANETHYLENEDIAMIN
 EC 234-147-9 N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE

Hazard statements :

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H373 May cause damage to organs through prolonged or repeated exposure (if swallowed).
 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.
 P102 Keep out of reach of children.

Precautionary statements - Prevention :

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
 ...

Precautionary statements - Response :

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor/...
 P391 Collect spillage.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents/container to hazardous waste.

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 contain 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	Classification (EC) 1272/2008	Note	%
CAS: 68082-29-1 EC: 500-191-5 REACH: 01-2119972320-44-XXXX FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE	GHS07, GHS05, GHS09 Dgr Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411		25 \leq x % < 50
CAS: 1761-71-3 EC: 217-168-8 REACH: 01-2119541673-38-XXXX 4.4' METHYLENEBIS (CYCLOHEXYLAMINE)	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT RE 2, H373		10 \leq x % < 25
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX BENZYL ALCOHOL	GHS07 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319 Acute Tox. 4, H332	[1]	10 \leq x % < 25

CAS: 9046-10-0 EC: 618-561-0 REACH: 01-2119557899-12-XXXX REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1,2-DIOL WITH AMMONIA	GHS05 Dgr Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412		2.5 <= x % < 10
CAS: 135108-88-2 EC: 603-894-6 REACH: 01-2119983522-33-XXXX COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED	GHS06, GHS05, GHS08 Dgr Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412		2.5 <= x % < 10
CAS: 90-72-2 EC: 202-013-9 REACH: 01-2119560597-27-XXXX 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318		1 <= x % < 2.5
CAS: 90640-67-8 EC: 292-588-2 REACH: 01-2119487919-13-XXXX AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION	GHS07, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412		0 <= x % < 1
CAS: 69-72-7 EC: 200-712-3 REACH: 01-2119486984-17-XXXX SALICYLIC ACID	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	[2]	0 <= x % < 1
CAS: 112-24-3 EC: 203-950-6 REACH: 01-2119487919-13-XXXX 3,6-DIAZAOCTANETHYLENEDIAMIN	GHS07, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412		0 <= x % < 1
CAS: 10563-26-5 EC: 234-147-9 REACH: 01-2119976331-37-XXXX N,N'-BIS(3-AMINOPROPYL)ETHYLENE DIAMINE	GHS06, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318		0 <= x % < 1
CAS: 72017-66-4 EC: 276-292-0 REACH: 01-2120137107-64-XXXX CHROMATE (2-), [[[CHLORO-5 HYDROXY-2 NITRO 3 PHENYL) AZO]-4 DIHYDRO-2,4 METHYL-5 PHENYL-2 3H-PYRAZOLONE-3 ATO (2-)]][[[[CHLORO-3 PHENYL)-1	GHS09, GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1

DIHYDRO-4,5 METHYL-3 OXO-5
1H-PYRAZOLYL-4]AZO]-3 HYDROXY-4
NITRO-5 BENZENESULFONATO (3-)],
DISODIQUÉ

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 1761-71-3 EC: 217-168-8 REACH: 01-2119541673-38-XXXX 4.4' METHYLENEBIS (CYCLOHEXYLAMINE)		dermal: ATE = 2110 mg/kg BW oral: ATE = 380 mg/kg BW
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX BENZYL ALCOHOL		inhalation: ATE = 5 mg/l 4h (dust/mist) dermal: ATE = 2000 mg/kg BW oral: ATE = 1620 mg/kg BW
CAS: 9046-10-0 EC: 618-561-0 REACH: 01-2119557899-12-XXXX REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1,2-DIOL WITH AMMONIA		dermal: ATE = 2979.7 mg/kg BW oral: ATE = 2885.3 mg/kg BW
CAS: 135108-88-2 EC: 603-894-6 REACH: 01-2119983522-33-XXXX COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED		oral: ATE = 300 mg/kg BW
CAS: 90-72-2 EC: 202-013-9 REACH: 01-2119560597-27-XXXX 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL		dermal: ATE = 1280 mg/kg BW oral: ATE = 1200 mg/kg BW
CAS: 90640-67-8 EC: 292-588-2 REACH: 01-2119487919-13-XXXX AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION		dermal: ATE = 1465 mg/kg BW oral: ATE = 1716 mg/kg BW
CAS: 69-72-7 EC: 200-712-3 REACH: 01-2119486984-17-XXXX SALICYLIC ACID		oral: ATE = 891 mg/kg BW
CAS: 112-24-3 EC: 203-950-6 REACH: 01-2119487919-13-XXXX 3,6-DIAZAOCTANETHYLENEDIAMIN		dermal: ATE = 1465 mg/kg BW oral: ATE = 1719 mg/kg BW
CAS: 10563-26-5 EC: 234-147-9 REACH: 01-2119976331-37-XXXX N,N'-BIS(3-AMINOPROPYL)ETHYLENE DIAMINE		dermal: ATE = 300 mg/kg BW oral: ATE = 1200 mg/kg BW
CAS: 72017-66-4 EC: 276-292-0 REACH: 01-2120137107-64-XXXX CHROMATE (2-), [(CHLORO-5		oral: ATE = 2700 mg/kg BW

HYDROXY-2 NITRO 3 PHENYL)
AZO]-4 DIHYDRO-2,4 METHYL-5
PHENYL-2 3H-PYRAZOLONE-3 ATO
(2-)][(CHLORO-3 PHENYL)-1
DIHYDRO-4,5 METHYL-3 OXO-5
1H-PYRAZOLYL-4]AZO]-3 HYDROXY-4
NITRO-5 BENZENESULFONATO (3-)],
DISODIQUÉ

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 exposure by inhalation :

If inhaled, move the patient to fresh air and keep warm and rest.

Consult a doctor.

In the event of splashes or contact with eyes :

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

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

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.

Remove any soiled or splashed clothing immediately.

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

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

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

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, administer activated medical charcoal and consult a doctor.

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

Information for the doctor :

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

- foam

- powder

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)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

5.3. Advice for firefighters

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode.
Wear conform with the European standard EN 469.

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

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.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

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.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

Prohibited equipment and procedures :

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

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep away from food and drink, including those for animals.

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

Store away from heat and cold.

Packaging

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

7.3. Specific end use(s)

Use : adhesives

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
100-51-6		5 ppm 22 mg/m ³		2 (I)

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

SALICYLIC ACID (CAS: 69-72-7)

Final use:Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
2 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
12 mg of substance/m³Exposure method:
Potential health effects:
DNEL :Inhalation.
Long term local effects.
5 mg of substance/m³**Final use:**Exposure method:
Potential health effects:
DNEL :**Man exposed via the environment.**Ingestion.
Short term systemic effects.
4 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Ingestion.
Long term systemic effects.
1 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
1 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
4 mg of substance/m³

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Final use:Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Short term local effects.
0.028 mg of substance/cm²Exposure method:
Potential health effects:
DNEL :Dermal contact.
Long term systemic effects.
0.57 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Short term systemic effects.
5380 mg of substance/m³**Final use:**Exposure method:
Potential health effects:
DNEL :**Consumers.**Ingestion.
Long term systemic effects.
0.41 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Ingestion.
Short term systemic effects.
20 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Dermal contact.
Short term local effects.
0.43 mg of substance/cm²

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 1600 mg of substance/m3

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 2 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 6 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 2 mg of substance/m3

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 0.623 mg of substance/cm2

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.04 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 1.25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 0.311 mg of substance/cm2

BENZYL ALCOHOL (CAS: 100-51-6)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 40 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 8 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 110 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 22 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 4 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 20 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 4 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 20 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 5.4 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 27 mg of substance/m3

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Final use: Workers.

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.1 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1 mg of substance/m3

Final use: Man exposed via the environment.

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.06 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.21 mg of substance/m3

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

Final use: Workers.

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 1.1 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 3.9 mg of substance/m3

Final use: Man exposed via the environment.

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.56 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.56 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.97 mg of substance/m3

Predicted no effect concentration (PNEC):

SALICYLIC ACID (CAS: 69-72-7)

Environmental compartment: Soil.
PNEC : 0.17 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.2 mg/l

Environmental compartment: Sea water.
PNEC : 0.02 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 1.42 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.14 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 162 mg/l

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Environmental compartment: Soil.
PNEC : 19.1 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.19 mg/l

Environmental compartment: Sea water.
PNEC : 0.038 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 95.5 mg/kg

Environmental compartment: Marine sediment.
PNEC : 19.2 mg/kg

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Environmental compartment: Soil.
PNEC : 1.8 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.015 mg/l

Environmental compartment: Sea water.
PNEC : 0.0015 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.15 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 15 mg/kg

Environmental compartment: Marine sediment.
PNEC : 1.5 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 1.9 mg/l

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Environmental compartment: Soil.
PNEC : 0.0176 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.015 mg/l

Environmental compartment: Sea water.
PNEC : 0.0143 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.15 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.132 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.125 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 7.5 mg/l

BENZYL ALCOHOL (CAS: 100-51-6)

Environmental compartment: Soil.
PNEC : 0.456 mg/kg

Environmental compartment: Fresh water.
PNEC : 1 mg/l

Environmental compartment: Sea water.
PNEC : 0.1 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 2.3 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 5.27 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.527 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 39 mg/l

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Environmental compartment: Soil.
PNEC : 27.2 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.08 mg/l

Environmental compartment: Sea water.
PNEC : 0.008 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.08 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 14.6 mg/kg

Environmental compartment: Marine sediment.

PNEC :	1.46 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	3.2 mg/l
FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS 68082-29-1)	
Environmental compartment:	Soil.
PNEC :	86.78 mg/kg
Environmental compartment:	Fresh water.
PNEC :	4.34 µg/l
Environmental compartment:	Sea water.
PNEC :	0.434 µg/l
Environmental compartment:	Fresh water sediment.
PNEC :	434 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	43.4 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	3.84 mg/l

8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

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.

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 :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Avoid skin contact.

Wear suitable 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.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

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.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Mask with filter type A, B, E, K, P

Attention! If the protection group is insufficient.

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

Physical state :	Viscous liquid.
aspect :	gel

Colour

Color :	Red
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Odour

Odour threshold :	Not stated.
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Melting point

Melting point/melting range :	Not relevant.
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Freezing point

Freezing point / Freezing range :	Not stated.
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Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	Not relevant.
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Flammability

Flammability (solid, gas) :	Not stated.
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Lower and upper explosion limit

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

Flash point

Flash Point Interval :	FP > 100°C.
------------------------	-------------

Auto-ignition temperature

Self-ignition temperature :	Not relevant.
-----------------------------	---------------

Decomposition temperature

Decomposition point/decomposition range :	Not relevant.
---	---------------

pH

pH (aqueous solution) :	Not stated.
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pH :	Not stated.
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	Slightly basic.
--	-----------------

Kinematic viscosity

Viscosity :	24 000 ± 4 800 mPa.s @ 25 °C
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Solubility

Water solubility :	Insoluble.
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Fat solubility :	Not stated.
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Partition coefficient n-octanol/water (log value)

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

Vapour pressure (50°C) :	Not relevant.
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Density and/or relative density

Density :	1.02 ± 0.02 @ 20 °C
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Relative vapour density

Vapour density :	Not stated.
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9.2. Other information

Index of refraction :	1.5087 ± 0.002 @ 25 °C
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9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

Formation of explosible dust/air mixtures

Characteristic of dust particles :	Not stated.
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Maximum pressure generated by the explosion :	Not stated.
Deflagration index (Kst) :	Not stated.
Minimum ignition energy :	Not stated.
MEC/LEL:	Not stated.

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

No data available.

10.4. Conditions to avoid

Avoid :

- contact with air
- humidity

10.5. Incompatible materials

Keep away from :

- strong oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

Harmful if swallowed.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause an allergic reaction by skin contact.

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances

Acute toxicity :

CHROMATE (2-), [[(CHLORO-5 HYDROXY-2 NITRO 3 PHENYL) AZO]-4 DIHYDRO-2,4 METHYL-5 PHENYL-2 3H-PYRAZOLONE-3 ATO (2-)]][[(CHLORO-3 PHENYL)-1 DIHYDRO-4,5 METHYL-3 OXO-5 1H-PYRAZOLYL-4]AZO]-3 HYDROXY-4 NITRO-5 BENZENESULFONATO (3-)], DISODIQUÉ (CAS: 72017-66-4)

Oral route : LD50 = 2700 mg/kg bodyweight/day
Species : Rat

N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE (CAS: 10563-26-5)

Oral route : LD50 = 1200 mg/kg bodyweight/day
Species : Rat

Dermal route : LD50 = 300 mg/kg bodyweight/day
Species : Rabbit

3,6-DIAZAOCTANETHYLENEDIAMIN (CAS: 112-24-3)

Oral route : LD50 = 1719 mg/kg bodyweight/day
Species : Rat

Dermal route : LD50 = 1465 mg/kg bodyweight/day
Species : Rabbit

SALICYLIC ACID (CAS: 69-72-7)

Oral route : LD50 = 891 mg/kg bodyweight/day

Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :
LD50 > 2000 mg/kg bodyweight/day
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) :
LC50 > 0.9 mg/l
Species : Rat

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Oral route :
LD50 = 1716 mg/kg bodyweight/day
Species : Rat

Dermal route :
LD50 = 1465 mg/kg bodyweight/day
Species : Rabbit

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Oral route :
LD50 = 1200 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :
LD50 = 1280 mg/kg bodyweight/day
Species : Rat

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Oral route :
LD50 = 300 mg/kg bodyweight/day
Species : Rat

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1,2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Oral route :
LD50 = 2885.3 mg/kg bodyweight/day
Species : Rat

Dermal route :
LD50 = 2979.7 mg/kg bodyweight/day
Species : Rabbit

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route :
LD50 = 1620 mg/kg bodyweight/day
Species : Rat

Dermal route :
LD50 = 2000 mg/kg bodyweight/day
Species : Rat

Inhalation route (Dusts/mist) :
LC50 = 5 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

4,4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Oral route :
LD50 = 380 mg/kg bodyweight/day
Species : Rat
Other guideline

Dermal route :
LD50 = 2110 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

Oral route :
LD50 > 2000 mg/kg bodyweight/day
Species : Rat

Dermal route :
LD50 > 2000 mg/kg bodyweight/day
Species : Rat

OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation :

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Corrosivity : Causes severe skin burns.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Corrosivity : Causes severe skin burns.

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Corrosivity : Causes severe skin burns.

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Corrosivity : Causes severe skin burns.

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation :

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Guinea Pig Maximisation Test (GMPT) : Sensitiser.

Species : Guinea pig

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

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

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

BENZYL ALCOHOL (CAS: 100-51-6)

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

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Guinea Pig Maximisation Test (GMPT) : Sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Species : Guinea pig

Germ cell mutagenicity :

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

No mutagenic effect.

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

No mutagenic effect.

Mutagenesis (in vitro) : Negative.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

No mutagenic effect.

Carcinogenicity :

BENZYL ALCOHOL (CAS: 100-51-6)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

Species : Mouse

OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicant :

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

No toxic effect for reproduction

Study on development :

Species : Rat

OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

BENZYL ALCOHOL (CAS: 100-51-6)

No toxic effect for reproduction

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

No toxic effect for reproduction

Specific target organ systemic toxicity - repeated exposure :

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Oral route :

C = 239 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 28 days

OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Dermal route :

C = 250 mg/kg bodyweight/day

Duration of exposure : 90 days

OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route :

C = 400 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 90 days

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards**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**

CHROMATE (2-), [[[CHLORO-5 HYDROXY-2 NITRO 3 PHENYL) AZO]-4 DIHYDRO-2,4 METHYL-5 PHENYL-2 3H-PYRAZOLONE-3 ATO (2-)]][[[[CHLORO-3 PHENYL)-1 DIHYDRO-4,5 METHYL-3 OXO-5 1H-PYRAZOLYL-4]AZO]-3 HYDROXY-4 NITRO-5 BENZENESULFONATO (3-)], DISODIQUE (CAS: 72017-66-4)

Fish toxicity :

LC50 = 0.13 mg/l

Species : Danio rerio

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 33.4 mg/l

Duration of exposure : 48 h

3,6-DIAZAOCTANETHYLENEDIAMIN (CAS: 112-24-3)

Fish toxicity :

LC50 = 330 mg/l

Species : Pimephales promelas

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 31.1 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

Algae toxicity : EC50 mg/l
Species : *Scenedesmus subspicatus*
Duration of exposure : 72 h

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Fish toxicity : LC50 = 330 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 31.1 mg/l
Duration of exposure : 48 h

Algae toxicity : ECr50 = 20 mg/l
Duration of exposure : 72 h

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Fish toxicity : LC50 = 175 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 718 mg/l
Species : *Daphnia magna*
Duration of exposure : 96 h

Algae toxicity : ECr50 = 84 mg/l
Species : *Desmodesmus subspicatus*
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

Fish toxicity : LC50 = 63 mg/l
Species : *Poecilia reticulata*
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 15.4 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1,2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Fish toxicity : LC50 > 15 mg/l
Species : Others
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 80 mg/l
Species : Others
Duration of exposure : 48 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

Fish toxicity : LC50 = 7.07 mg/l
Species : *Brachydanio rerio*
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 7.07 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h
OCDE Ligne directrice 202 (*Daphnia* sp., essai d'immobilisation immédiate)

Algae toxicity : EC50 mg/l
Species : *Pseudokirchnerella subcapitata*
Duration of exposure : 72 h

NOEC = 0.5 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h

BENZYL ALCOHOL (CAS: 100-51-6)

Fish toxicity :

LC50 = 460 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :

EC50 = 230 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 51 mg/l
Species : Daphnia magna
Duration of exposure : 21 jours
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :

ECr50 = 770 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 310 mg/l
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Fish toxicity :

LC50 > 100 mg/l
Species : Leuciscus idus melanotus
Duration of exposure : 96 h
Autres lignes directrices

Crustacean toxicity :

EC50 = 9.24 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
Autres lignes directrices

NOEC = 4 mg/l
Species : Daphnia magna
Duration of exposure : 21 jours
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :

ECr50 = 141.2 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
Autres lignes directrices

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

3,6-DIAZAOCTANETHYLENEDIAMIN (CAS: 112-24-3)

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

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION (CAS: 90640-67-8)

Biodegradability : Non-rapidly degradable.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

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

COPOLYMER OF BENZENAMINE AND FORMALDEHYDE, HYDROGENATED (CAS: 135108-88-2)

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

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

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

BENZYL ALCOHOL (CAS: 100-51-6)

Biodegradability : Rapidly degradable.

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Biodegradability : Non-rapidly degradable.

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (CAS: 68082-29-1)

Biodegradability : Non-rapidly degradable.

CHROMATE (2-), [[[CHLORO-5 HYDROXY-2 NITRO 3 PHENYL] AZO]-4 DIHYDRO-2,4 METHYL-5 PHENYL-2 3H-PYRAZOLONE-3 ATO (2-)]][[(CHLORO-3 PHENYL)-1 DIHYDRO-4,5 METHYL-3 OXO-5 1H-PYRAZOLYL-4]AZO]-3 HYDROXY-4 NITRO-5 BENZENESULFONATO (3-)], DISODIQUE (CAS: 72017-66-4)

Chemical oxygen demand : DCO = 0.78

Five-day biochemical oxygen demand : DBO5 = 0

Biodegradability : Non-rapidly degradable.
DBO5/DCO = 0.00

12.3. Bioaccumulative potential

12.3.1. Substances

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

Octanol/water partition coefficient : log K_{ow} = 0.219

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Octanol/water partition coefficient : log K_{ow} = 1.34

BENZYL ALCOHOL (CAS: 100-51-6)

Octanol/water partition coefficient : log K_{ow} = 1.1

4.4' METHYLENEBIS (CYCLOHEXYLAMINE) (CAS: 1761-71-3)

Octanol/water partition coefficient : log K_{ow} = 2.03
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

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 Annex I, KBws) :

WGK 3 : Extremely 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, 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.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

07 01 08 * other still bottoms and reaction residues

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 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

2735

14.2. UN proper shipping name

UN2735=AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(4.4' methylenebis (cyclohexylamine), copolymer of benzenamine and formaldehyde, hydrogenated)

14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

II

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
	8	C7	II	8	80	1 L	274	E2	2	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	8	-	II	1 L	F-A. S-B	274	E2	Category A	SGG18 SG35	
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	8	-	II	851	1 L	855	30 L	A3 A803	E2	
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2	

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.

Marine pollutant (IMDG 3.1.2.9):(fatty acids, c18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)

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. 2022/692 (ATP 18)

Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).
Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 3 : Extremely 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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms :

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).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.