

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : SD 228 Product code : 1991. HARDENER

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: https://www.swiss-composite.ch

1.4. Emergency telephone number:

Association/Organisation: ToxInfo Zürich, Telefon 145 (International +41 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.

Skin corrosion, Category 1A (Skin Corr. 1A, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Reproductive toxicity, Category 1A (Repr. 1A, H360).

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

GHS07

GHS08

GHS09

Signal Word : DANGER

Product identifiers :

EC 500-105-6 PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA

EC 220-666-8 3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE

EC 219-941-5 1,3-CYCLOHEXANEDIMETHANAMINE

EC 266-047-6 FRITS, CHEMICALS

Additional labeling:

For professional use only.

Hazard statements:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P201 Obtain special instructions before use.

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

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/

...

Precautionary statements - Response :

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/...

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

Identification	(EC) 1272/2008	Note	%
CAS: 39423-51-3	GHS07, GHS05, GHS09		10 <= x % < 25
EC: 500-105-6	Dgr		
REACH: 01-2119556886-20-XXXX	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
PROPYLIDYNETRIMETHANOL,	Eye Dam. 1, H318		
PROPOXYLATED, REACTION PRODUCTS	Aquatic Chronic 2, H411		
WITH AMMONIA			
CAS: 2855-13-2	GHS07, GHS05		2.5 <= x % < 10
EC: 220-666-8	Dgr		
REACH: 01-2119514687-32-XXXX	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
3-AMINOMETHYL-3,5,5-TRIMETHYL-C	Skin Corr. 1B, H314		
YCLOHEXYLAMINE	Skin Sens. 1, H317		
	Eye Dam. 1, H318		
	Aquatic Chronic 3, H412		
CAS: 2579-20-6	GHS07, GHS05		2.5 <= x % < 10
EC: 219-941-5	Dgr		
REACH: 01-2119543741-41-XXXX	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
1,3-CYCLOHEXANEDIMETHANAMINE	Skin Corr. 1A, H314		
	Aquatic Chronic 3, H412		
CAS: 65997-18-4	GHS08, GHS09	[2]	2.5 <= x % < 10
EC: 266-047-6	Dgr		
REACH: 01-2119548361-42-XXXX	Repr. 1A, H360Fd		
	Aquatic Acute 1, H400		
FRITS, CHEMICALS	M Acute = 1		
	Aquatic Chronic 1, H410		
	M Chronic = 1		
CAS: 13463-67-7		[1]	2.5 <= x % < 10
EC: 236-675-5			
REACH: 01-2119489379-17-XXXX			
TITANIUM DIOXYDE			
CAS: 770-35-4	GHS07		2.5 <= x % < 10

228 - 1991			
EC: 212-222-7 REACH: 01-2119486566-23-XXXX	Wng Eye Irrit. 2, H319		
1-PHENOXYPROPAN-2-OL			
CAS: 7631-86-9		[1]	1 <= x % < 2.5
EC: 231-545-4			
REACH: 01-2119379499-16-XXXX			
SILICON DIOXIDE			
CAS: 69-72-7	GHS07, GHS05		1 <= x % < 2.5
EC: 200-712-3	Dgr		
REACH: 01-2119486984-17-XXXX	Acute Tox. 4, H302		
	Eye Dam. 1, H318		

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

Information on ingredients:

SALICYLIC ACID

- [1] Substance for which maximum workplace exposure limits are available.
- [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

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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.

Never give anything by mouth. If unconscious, place in recovery position and call an ambulance.

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 and consult a doctor.

Seek medical attention immediately, showing 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.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

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

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.

Packaging

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

7.3. Specific end use(s)

Scope advised: Fire

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

 ACGIH TLV (American 	Conforance of	F Covernmental	Industrial Hygionists	Throchold Limit Values	2010) •
- ACGILL LEV (AILIEUCAL	i Connerence oi	Governmentar	illuusillai rivuleilisis.	. THESHOU LIHIT VAIUES.	. 20101.

CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :
13463-67-7	10 mg/m3			A4	

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

- France (INRS - ED984 :2016) :

 CAS
 VME-ppm:
 VME-mg/m3:
 VLE-ppm:
 VLE-mg/m3:
 Notes:
 TMP No:

 13463-67-7
 10

- UK / WEL (Workplace exposure limits, EH40/2005, 2011):

CAS	TWA:	STEL:	Ceiling:	Definition :	Criteria :	
13463-67-7	- ppm	- ppm				
	4 mg/m ³	- mg/m³				

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

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects:

DNEL:

Long term systemic effects.

42 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 25.7 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 3.65 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 21 mg/kg body weight/day

TITANIUM DIOXYDE (CAS: 13463-67-7)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 10 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 700 mg/kg body weight/day

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 0.00947 mg of substance/m3

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 20.1 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 20.1 mg of substance/m3

Final use: Man exposed via the environment.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 0.526 mg/kg body weight/day

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Final use:Workers.

Exposure method:

Dermal contact.

Potential health effects:

DNEL:

Long term systemic effects.

DNEL:

1.6 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 14 mg of substance/m3

Final use:Consumers.

Exposure method:

Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 0.8 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 3.48 mg of substance/m3

Predicted no effect concentration (PNEC):

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Environmental compartment: Soil.

PNEC: 0.02 mg/kg

Environmental compartment: Fresh water.

PNEC: 0.1 mg/l

Environmental compartment: Sea water. PNEC: 0.01 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 1 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.38 mg/kg

Environmental compartment: Marine sediment. PNEC: 0.038 mg/kg

TITANIUM DIOXYDE (CAS: 13463-67-7)

Environmental compartment: Soil.
PNEC: 100 mg/kg

Environmental compartment: Fresh water.

PNEC: 0.184 mg/l

Environmental compartment: Sea water.
PNEC: 0.0184 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.61 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 1000 mg/kg

Environmental compartment: Marine sediment. PNEC: 100 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 100 mg/l

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Environmental compartment: Fresh water.

PNEC: 0.033 mg/l

Environmental compartment: Sea water. PNEC: 0.003 mg/l

Environmental compartment: Waste water treatment plant.

PNEC: 10 mg/l

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Environmental compartment: Soil.
PNEC: 1.121 mg/kg

Environmental compartment: Fresh water.

PNEC: 0.06 mg/l

Environmental compartment: Sea water. PNEC: 0.006 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.23 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 5.784 mg/kg

Environmental compartment: Marine sediment. PNEC : 0.578 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 3.18 mg/l

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Environmental compartment: Soil.

PNEC: 0.002 mg/kg

Environmental compartment: Fresh water.

PNEC: 0.0044 mg/l

Environmental compartment: Sea water.
PNEC: 0.00044 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.044 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.02 mg/kg

Environmental compartment: Marine sediment. PNEC: 0.002 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 10 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









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 EN374.

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)

Recommended properties:

- Impervious gloves in accordance with standard EN374

- 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 to prevent skin contact

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

Wear suitable protective clothing, in particular overalls and boots. These items must be kept 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

General information :

Physical state :	Viscous liquid.
Aspect:	Gel
Color:	white

Important health, safety and environmental information

, ,,	
pH:	Not stated.
	Slightly basic.
Boiling point/boiling range :	Not relevant.
Flash Point Interval :	FP > 100°C.
Vapour pressure (50°C):	Not relevant.
Density:	1.41 ± 0.03 @ 20°C
Water solubility:	Insoluble.
Viscosity:	4 690 ± 1 540 mPa.s @ 25°C
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

9.2. Other information

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

No data available.

10.4. Conditions to avoid

No data available.

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 toxicological effects

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

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.

Known human reproductive toxicant.

May damage fertility and suspected of damaging the unborn child.

11.1.1. Substances

Acute toxicity:

SALICYLIC ACID (CAS: 69-72-7)

Oral route : LD50 = 891 mg/kg

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 2000 mg/kg

Species : Rat

Inhalation route (n/a): LC50 > 0.9 mg/l

Species : Rat

SILICON DIOXIDE (CAS: 7631-86-9)

Oral route : LD50 > 5000 mg/kg

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 5000 mg/kg

Species : Rabbit

Other guideline

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Oral route: LD50 > 2000 mg/kg

Species: Rat

Dermal route : LD50 > 2000 mg/kg

Species: Rabbit

Inhalation route (n/a): LC50 > 5.4 mg/l

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Oral route: LD50 = 880 mg/kg

Species: Rat

OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

Dermal route : LD50 = 1700 mg/kg

Species: Rat

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Oral route: LD50 = 1030 mg/kg

Species: Rat

Dermal route : LD50 > 2000 mg/kg

Species : Rat

OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a): LC50 > 5.01 mg/l

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Oral route : LD50 = 550 mg/kg

Species: Rat

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

Dermal route : LD50 > 1000 mg/kg

Species: Rat

OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation:

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation:

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Species: Rabbit

OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

SALICYLIC ACID (CAS: 69-72-7)

Ames test (in vitro): Negative.

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Ames test (in vitro): Negative.

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Mutagenesis (in vivo): Negative.

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro): Negative.

With or without metabolic activation.

Reproductive toxicant:

SILICON DIOXIDE (CAS: 7631-86-9) No toxic effect for reproduction

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Study on development : Species : Rat

OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Specific target organ systemic toxicity - repeated exposure :

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Dermal route : C > 160 mg/kg bodyweight/day

Duration of exposure: 90 days

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

11.1.2. Mixture

No toxicological data available for the mixture.

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

CAS 108-78-1: IARC Group 2B: The agent is possibly carcinogenic 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

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Fish toxicity: LC50 = 280 mg/l

Species : Pimephales promelas Duration of exposure : 96 h

Crustacean toxicity: EC50 = 370 mg/l

Species : Daphnia magna Duration of exposure : 48 h

Aquatic plant toxicity: ECr50 > 100 mg/l

Duration of exposure: 72 h

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Fish toxicity: LC50 = 130 mg/l

Species : Leuciscus idus Duration of exposure : 96 h

Crustacean toxicity: EC50 = 65.4 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: ECr50 = 58.4 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 14.4 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

 $3\text{-}AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE} \hspace{0.1cm} \textbf{(CAS: 2855-13-2)} \\$

Fish toxicity: LC50 = 110 mg/l

Species : Leuciscus idus Duration of exposure : 96 h

Crustacean toxicity: EC50 = 23 mg/l

Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 3 mg/l

Species : Daphnia magna Duration of exposure : 21 days

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: ECr50 > 50 mg/l

Species: Desmodesmus subspicatus

Duration of exposure: 72 h

NOEC = 1.5 mg/l

Species: Desmodesmus subspicatus

Duration of exposure: 72 h

Other guideline

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Fish toxicity: LC50 > 100 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 = 13 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: ECr50 = 4.4 mg/l

Species: Selenastrum capricornutum

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

SALICYLIC ACID (CAS: 69-72-7)

Fish toxicity: LC50 = 1380 mg/l

Species : Pimephales promelas Duration of exposure : 96 h

Other guideline

Crustacean toxicity: EC50 = 230 mg/l

Species : Daphnia magna Duration of exposure : 24 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 10 mg/l

Species : Daphnia magna Duration of exposure : 21 days

Algae toxicity: ECr50 > 100 mg/l

Species: Desmodesmus subspicatus

Duration of exposure: 72 h

SILICON DIOXIDE (CAS: 7631-86-9)

Fish toxicity: LC50 > 10000 mg/l

Species : Brachydanio rerio Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 > 1000 mg/l

Species : Daphnia magna Duration of exposure : 24 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

SALICYLIC ACID (CAS: 69-72-7)

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

degrading quickly.

SILICON DIOXIDE (CAS: 7631-86-9)

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

degrading quickly.

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

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

degrading quickly.

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

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

degrading quickly.

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

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

degrading quickly.

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Biodegradability: Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

SALICYLIC ACID (CAS: 69-72-7)

Octanol/water partition coefficient : log Koe = 2.25

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Octanol/water partition coefficient : log Koe < 3.

Bioaccumulation: BCF < 100

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Octanol/water partition coefficient : log Koe = 0.783

OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask

Method)

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Octanol/water partition coefficient : log Koe = 0.99

OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask

Method)

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Octanol/water partition coefficient : log Koe = -1.13

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. 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.

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 2019 - IMDG 2018 - ICAO/IATA 2019).

14.1. UN number

2735

14.2. UN proper shipping name

UN2735=AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (propylidynetrimethanol, propoxylated, reaction products with ammonia, 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine)

14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

Ш

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	III	8	80	5 L	274	E1	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregati on	
	8	-	III	5 L	F-A, S-B	223 274	E1	Category A	SGG18 SG35	
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	8	8	III	852	5 L	856	60 L	A3 A803	E1	
	8	8	III	Y841	1 L	-	-	A3 A803	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. Transport in bulk according to Annex II of Marpol and the IBC Code

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. 2018/1480 (ATP 13)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2019/521 (ATP 12)

- Container information:

No data available.

Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.

For professional users only.

- Particular provisions :

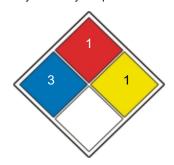
No data available.

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

WGK 2: Hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



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:

H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H360Fd	May damage fertility. Suspected of damaging the unborn child.			
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 :

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration CMR: Carcinogenic, mutagenic or reprotoxic.

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: Wassergefahrdungsklasse (Water Hazard Class).

GHS05: Corrosion

GHS07: Exclamation mark GHS08: Health hazard GHS09: Environment

PBT: Persistent, bioaccumulable and toxic.

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vPvB : Very persistent, very bioaccumulable. SVHC : Substances of very high concern.