



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 5503
Product code : 872.
Hardener for epoxy resin
UFI : F2U5-K0QF-T003-7XYM

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 : SICOMIN Composites.
Address : 31 avenue de la Lardiere - BP 23.13161.Chateauneuf les Martigues.France.
Telephone : +33 (0)4 42 42 30 20. Fax : +33 (0)4 42 81 29 29.
composites@sicomin.com
Site web : <http://www.sicomin.com>
AUSTRALIAN Importer : Lavender CE Pty Ltd - 108 Westgate Street - Wacol, Qld, 4076 AUSTRALIA / M: 0409 892 032 / Ph: +61 7 3255 6924 /
Fax: +61 7 3255 6923 / Web: www.lavender-ce.com / Email: sheading@lavender-ce.com

1.4. Emergency telephone number : .

Association/Organisation : INRS / ORFILA tél: +33(0)1.45.42.59.59 - (FRANCE) .

Other emergency numbers

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317 - USA : +1/ 800/ 424.9300 -
AUSTRALIA : Emergency Poison Advice : 131 126

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).
Reproductive toxicity, Category 1B (Repr. 1B, H360F).
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 500-105-6

612-067-00-9

EC 216-032-5

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

META XYLENE DIAMINE

EC 201-245-8 BISPHENOL A
 EC 268-626-9 POLYETHYLENEDIAMINES
 601-053-00-8 4-NONYLPHENOL, BRANCHED
 CAS 1293368-66-7 FORMALDEHYDE, POLYMERS WITH DIETHYLENEDIAMINE AND STYRENATED PHENOL
 EC 262-975-0 PHENOL, STYRENATED

Additional labeling :
 For professional users only.

Hazard statements :
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H360F May damage fertility.
 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.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 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/...
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.

2.3. Other hazards

The mixture contains 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 contains at least one substance $\geq 0.1\%$ 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. Refer to section 3 to identify the substances concerned.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 39423-51-3 EC: 500-105-6 REACH: 01-2119556886-20-XXXX PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411		25 \leq x % < 50
INDEX: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 REACH: 01-2119514687-32-XXXX 3-AMINOMETHYL-3,5,5-TRIMETHYLCY CLOHEXYLAMINE	GHS05, GHS07 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317		25 \leq x % < 50
CAS: 1477-55-0 EC: 216-032-5 REACH: 01-2119480150-50-XXXX META XYLENE DIAMINE	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 4, H332 Aquatic Chronic 3, H412	[1]	10 \leq x % < 25

CAS: 80-05-7 EC: 201-245-8 REACH: 01-2119457856-23-XXXX BISPHENOL A	GHS05, GHS09, GHS07, GHS08 Dgr Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 Repr. 1B, H360F Aquatic Chronic 2, H411	[1] [2] [5] [6] [XVII]	2.5 <= x % < 10
CAS: 68131-73-7 EC: 268-626-9 REACH: 01-2119485823-28-XXXX POLYETHYLENEPOLYAMINES	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 1, H410 M Chronic = 1		2.5 <= x % < 10
INDEX: 601-053-00-8 CAS: 84852-15-3 EC: 284-325-5 REACH: 01-2119510715-45-XXXX 4-NONYLPHENOL, BRANCHED	GHS08, GHS05, GHS07, GHS09 Dgr Repr. 2, H361fd Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[2] [5] [6]	1 <= x % < 2.5
CAS: 1293368-66-7 FORMALDEHYDE, POLYMERS WITH DIETHYLENTRIAMINE AND STYRENATED PHENOL	GHS05, GHS07 Dgr Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318		1 <= x % < 2.5
CAS: 61788-44-1 EC: 262-975-0 REACH: 01-2119980970-27-XXXX PHENOL, STYRENATED	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411		0.1 <= 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]	0.1 <= x % < 1

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 39423-51-3 EC: 500-105-6 REACH: 01-2119556886-20-XXXX PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA		oral: ATE = 550 mg/kg BW
INDEX: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 REACH: 01-2119514687-32-XXXX 3-AMINOMETHYL-3,5,5-TRIMETHYLCY CLOHEXYLAMINE	Skin Sens. 1A: H317 C>= 0.001%	oral: ATE = 1030 mg/kg BW
CAS: 1477-55-0	Eye Dam. 1: H318 C>= 5%	inhalation: ATE = 1.34 mg/l 4h

EC: 216-032-5 REACH: 01-2119480150-50-XXXX META XYLENE DIAMINE	Eye Irrit. 2: H319 1% <= C < 5%	(dust/mist) oral: ATE = 930 mg/kg BW
CAS: 80-05-7 EC: 201-245-8 REACH: 01-2119457856-23-XXXX BISPHENOL A		dermal: ATE = 3000 mg/kg BW oral: ATE = 3250 mg/kg BW
CAS: 68131-73-7 EC: 268-626-9 REACH: 01-2119485823-28-XXXX POLYETHYLENEPOLYAMINES		dermal: ATE = 1465.4 mg/kg BW oral: ATE = 1716.2 mg/kg BW
CAS: 61788-44-1 EC: 262-975-0 REACH: 01-2119980970-27-XXXX PHENOL, STYRENATED		inhalation: ATE = 4.9 mg/l (dust/mist) dermal: ATE = 5010 mg/kg BW oral: ATE = 2500 mg/kg BW
CAS: 69-72-7 EC: 200-712-3 REACH: 01-2119486984-17-XXXX SALICYLIC ACID		oral: ATE = 891 mg/kg BW

Information on ingredients :

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

[XVII] Restricted substance under Regulation (EC) No. 1907/2006 (REACH), Annex XVII.

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

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

[5] Substance that has severe irreversible effects on man and the environment such as causing endocrine disorders.

[6] Substances of very high concern (SVHC).

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.

If breathing is irregular or stopped, that qualified personnel provide artificial respiration and call 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

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.

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.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

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

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.

Packaging

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

7.3. Specific end use(s)

Recommended application area: wood system

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

- European Union (2022/431, 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 :
80-05-7	2				

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1477-55-0			0.1 mg/m ³	Skin	

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

CAS	VME :	VME :	Excess	Notes
80-05-7		5E mg/m ³		1(l)

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
1477-55-0	-	-	-	0.1	-	-
80-05-7		2			R1B	

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2019) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
80-05-7	2 mg/m ³			TRIB. Sen. VLI. ae. r 360F-335-318-3 17	

- Portugal (1.a N° 26 - 06/01/2012) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
80-05-7	10 mg/m ³				

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
80-05-7	2 mg/m ³				

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 :

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

2 mg/kg body weight/day

Inhalation.

Long term systemic effects.

12 mg of substance/m³

Inhalation.

Long term local effects.

5 mg of substance/m³

Man exposed via the environment.

Ingestion.

Short term systemic effects.

4 mg/kg body weight/day

Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	1 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	1 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	4 mg of substance/m3

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Final use:**Workers.**

Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	0.91 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	0.44 mg of substance/cm2
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	8550 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	1.59 mg of substance/m3

Final use:**Consumers.**

Exposure method:	Ingestion.
Potential health effects:	Short term systemic effects.
DNEL :	32 mg/kg body weight/day
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	0.65 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	13 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	1.59 mg of substance/cm2
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	0.4 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	0.68 mg of substance/cm2
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	2542 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	0.46 mg of substance/m3

BISPHENOL A (CAS: 80-05-7)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Short term systemic effects.
0.031 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term systemic effects.
2 mg of substance/m3

Exposure method:
Potential health effects:
DNEL :

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

Final use:

Exposure method:
Potential health effects:
DNEL :

Man exposed via the environment.

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

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Short term systemic effects.
0.002 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term systemic effects.
1 mg of substance/m3

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
1 mg of substance/m3

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term local effects.
1 mg of substance/m3

META XYLENE DIAMINE (CAS: 1477-55-0)**Final use:**

Exposure method:
Potential health effects:
DNEL :

Workers.

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

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
0.2 mg of substance/m3

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

Final use:Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
4 mg/kg body weight/dayExposure method:
Potential health effects:
DNEL :Inhalation.
Long term systemic effects.
4.9 mg of substance/m³**Final use:**Exposure method:
Potential health effects:
DNEL :**Consumers.**Ingestion.
Long term systemic effects.
0.5 mg/kg body weight/day**Predicted no effect concentration (PNEC):**

SALICYLIC ACID (CAS: 69-72-7)

Environmental compartment: Soil.
PNEC : 0.17 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.2 mg/lEnvironmental compartment: Sea water.
PNEC : 0.02 mg/lEnvironmental compartment: Fresh water sediment.
PNEC : 1.42 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 0.14 mg/kgEnvironmental compartment: Waste water treatment plant.
PNEC : 162 mg/l

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Environmental compartment: Soil.
PNEC : 10 mg/kgEnvironmental compartment: Fresh water.
PNEC : 1.6 µg/lEnvironmental compartment: Sea water.
PNEC : 1.6 µg/lEnvironmental compartment: Fresh water sediment.
PNEC : 0.14 mg/kgEnvironmental compartment: Marine sediment.
PNEC : 0.14 mg/kgEnvironmental compartment: Waste water treatment plant.
PNEC : 3.19 mg/l

BISPHENOL A (CAS: 80-05-7)

Environmental compartment: Soil.
PNEC : 3.7 mg/kgEnvironmental compartment: Fresh water.
PNEC : 0.018 mg/lEnvironmental compartment: Sea water.
PNEC : 0.018 mg/l

Environmental compartment: PNEC :	Fresh water sediment. 1.2 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.24 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 320 mg/l
META XYLENE DIAMINE (CAS: 1477-55-0)	
Environmental compartment: PNEC :	Soil. 0.045 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.094 mg/l
Environmental compartment: PNEC :	Sea water. 0.009 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.152 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.43 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.043 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l
PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)	
Environmental compartment: PNEC :	Soil. 0.002 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.004 mg/l
Environmental compartment: PNEC :	Sea water. 0.00044 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.044 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0224 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.00224 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 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

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 :	Fluid liquid.
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Colour

Color :	light yellow
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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.
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Flash point

Flash Point Interval :	FP > 100°C.
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Auto-ignition temperature

Self-ignition temperature :	Not relevant.
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Decomposition temperature

Decomposition point/decomposition range :	Not relevant.
pH	
pH (aqueous solution) :	Not stated.
pH :	Not stated.
	Slightly basic.
Kinematic viscosity	
Viscosity :	117.5 ± 22.5 mPa.s @ 25°C
Solubility	
Water solubility :	Soluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.
Density and/or relative density	
Density :	1.06 ± 0.02 @ 20°C
Relative vapour density	
Vapour density :	Not stated.
9.2. Other information	
Index of refraction :	1.5045 ± 0.002 @ 25 °C
% VOC :	0
Miscibility	Alcohols, aromatic solvents

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

No data available.

10.4. Conditions to avoid

Avoid :

- humidity
- contact with air

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.

Presumed human reproductive toxicant.

May damage fertility.

11.1.1. Substances

Acute toxicity :

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

PHENOL, STYRENATED (CAS: 61788-44-1)

Oral route : LD50 = 2500 mg/kg bodyweight/day
Species : Rat
OECD Guideline 423 (Acute Oral toxicity Acute Toxic Class Method)

Dermal route : LD50 = 5010 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 4.9 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Oral route : LD50 = 1716.2 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 = 1465.4 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

BISPHENOL A (CAS: 80-05-7)

Oral route : LD50 = 3250 mg/kg bodyweight/day
Species : Rat

Dermal route : LD50 = 3000 mg/kg bodyweight/day
Species : Rabbit

META XYLENE DIAMINE (CAS: 1477-55-0)

Oral route : LD50 = 930 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 3100 mg/kg bodyweight/day
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 1.34 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

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

Oral route : LD50 = 1030 mg/kg bodyweight/day

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

Oral route : LD50 = 550 mg/kg bodyweight/day
Species : Rat
OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Dermal route : LD50 > 1000 mg/kg bodyweight/day
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation :

PHENOL, STYRENATED (CAS: 61788-44-1)
Effect observed : Overall irritation score
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

META XYLENE DIAMINE (CAS: 1477-55-0)
Corrosivity : Causes severe skin burns.
Species : Rat

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)

Serious damage to eyes/eye irritation :

PHENOL, STYRENATED (CAS: 61788-44-1)
Species : Rabbit

Respiratory or skin sensitisation :

BISPHENOL A (CAS: 80-05-7)
Species : Guinea pig

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)
Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)
Mutagenesis (in vivo) : Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.
With or without metabolic activation.

PHENOL, STYRENATED (CAS: 61788-44-1)
No mutagenic effect.

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

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)
No mutagenic effect.

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

META XYLENE DIAMINE (CAS: 1477-55-0)

No mutagenic effect.

Reproductive toxicant :

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

BISPHENOL A (CAS: 80-05-7)

May damage fertility.

META XYLENE DIAMINE (CAS: 1477-55-0)

No toxic effect for reproduction

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

No toxic effect for reproduction

Study on fertility :

Species : Rat

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Study on development :

Species : Rat

OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Specific target organ systemic toxicity - repeated exposure :

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Species : Rat

META XYLENE DIAMINE (CAS: 1477-55-0)

Oral route :

C = 600 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 28 days

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

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

Oral route :

C >= 100 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 90 days

OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Dermal route :

C >= 160 mg/kg bodyweight/day

Species : Rat

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.

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**

META XYLENE DIAMINE (CAS: 1477-55-0)

Fish toxicity :

LC50 = 87.6 mg/l

Species : Oryzias latipes

Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

EC50 mg/l

Duration of exposure : 21 jours

Crustacean toxicity :

EC50 = 15.2 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

EC50 mg/l
Species : Daphnia magna
Duration of exposure : 21 jours
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

NOEC = 4.7 mg/l
Species : Daphnia magna
Duration of exposure : 21 jours
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :
ECr50 = 20.3 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 10.5 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

Aquatic plant toxicity :
Autres lignes directrices

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

Fish toxicity :
LC50 > 100 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 = 13 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity :
ECr50 = 4.4 mg/l
Species : Selenastrum capricornutum
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

PHENOL, STYRENATED (CAS: 61788-44-1)

Fish toxicity :
LC50 = 14.8 mg/l
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 <= 10 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 0.115 mg/l
Duration of exposure : 21 jours
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity :
ECr50 = 3.14 mg/l
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Fish toxicity :
LC50 = 100 mg/l
Species : Poecilia reticulata
Duration of exposure : 96 h

Crustacean toxicity :
EC50 = 2.2 mg/l

	Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 = 0.23 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 72 h
BISPHENOL A (CAS: 80-05-7) Fish toxicity :	LC50 = 4.6 mg/l Species : Pimephales promelas Duration of exposure : 96 h
	NOEC = 0.016 mg/l Species : Others
Crustacean toxicity :	EC50 = 7.75 mg/l Species : Others Duration of exposure : 48 h
	NOEC = 1.8 mg/l
Algae toxicity :	ECr50 = 2.73 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

PHENOL, STYRENATED (CAS: 61788-44-1)

Biodegradability : Non-rapidly degradable.

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Biodegradability : Non-rapidly degradable.

BISPHENOL A (CAS: 80-05-7)

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

META XYLENE DIAMINE (CAS: 1477-55-0)

Biodegradability : Non-rapidly degradable.

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

Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

PHENOL, STYRENATED (CAS: 61788-44-1)

Octanol/water partition coefficient : log K_{ow} ≤ 5.8
OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

Bioaccumulation : BCF ≤ 190
OCDE Ligne directrice 305 (Bioconcentration: Essai dynamique chez le poisson)

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Octanol/water partition coefficient : log K_{ow} = -3.67

BISPHENOL A (CAS: 80-05-7)

Octanol/water partition coefficient : log K_{ow} = 3.3

Bioaccumulation : BCF = 73

META XYLENE DIAMINE (CAS: 1477-55-0)

Octanol/water partition coefficient :

log K_{ow} = 0.18

OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode par agitation en flacon)

Bioaccumulation :

BCF = 2.69

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

Octanol/water partition coefficient :

log K_{ow} = -1.13

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=POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethylcyclohexylamine, polyethylenepolyamines)

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):(polyethylenepolyamines)

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:

No data available.

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

The mixture contains at least one restricted substance under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>. Please refer to Section 3 to identify the substance involved.

For professional users only.

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 :

H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging 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 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 : Wassergefahrdungsklasse (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.