LOCK25-50 - FREIN FILET FORT - ROUGE GEL - 25N/M - LOCK25-50

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 : LOCK25-50 - FREIN FILET FORT - ROUGE GEL - 25N/M

UFI : Q500-R0R4-M004-GEJ5

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

Relevant identified uses:	Anaerobic thread lock, based on methacrylates.
-	Adhesives, sealants, bonding agents.

1.3. Details of the supplier of the safety data sheet

Registered company name : ETABLISSEMENTS VELOX

Address : 13, rue de la Peltière 35130 LA GUERCHE DE BRETAGNE France

Telephone : +33 (0)2 99 75 17 81. Fax: -. Telex: .

velox@velox.fr

http://www.velox.fr

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

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

Other emergency numbers

National Poisons Information Service of England: http://npis.org - NHS 111: dial 111 - National Poisons Information Centre of Ireland: 353 (1) 809 2166 - LUXEMBOURG : (+352) 8002 5500 - European Emergency Number Association (EENA) : 112

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

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

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

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 :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 248-666-3	METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL
EC 201-177-9	ACRYLIC ACID

EC 203-652-6	2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE
EC 911-490-9	REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4-METHYLPHENYL)AMINO]-

Hazard statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 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> = 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: 27813-02-1 EC: 248-666-3 REACH: 01-2119490226-37 METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL	GHS07 Wng Skin Sens. 1, H317 Eye Irrit. 2, H319		3 <= x % < 8
CAS: 79-10-7 EC: 201-177-9 REACH: 01-2119452449-31 ACRYLIC ACID	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1	D [1]	1 <= x % < 3
CAS: 80-15-9 EC: 201-254-7 REACH: 01-2119475796-19 ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE	GHS06, GHS05, GHS09, GHS08, GHS02 Dgr Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 2, H411	[1]	1 <= x % < 3

CAS: 109-16-0 EC: 203-652-6 REACH: 01-2119969287-21 2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE	GHS07 Wng Skin Sens. 1B, H317 Aquatic Chronic 3, H412		0.3 <= x % < 1
CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119565113-46	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1	[1]	0.3 <= x % < 1
BUTYLATED HYDROXYTOLUENE	Aquatic Chronic 1, H410 M Chronic = 1		
CAS: 114-83-0 EC: 204-055-3 2'-PHENYLACETOHYDRAZIDE	GHS06 Dgr Acute Tox. 3, H301		0.3 <= x % < 1
CAS: 99-97-8 EC: 202-805-4 REACH: 01-2119956633-31 N,N-DIMETHYL-P-TOLUIDINE	GHS06, GHS08 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 3, H412	C [1]	0.1 <= x % < 0.3
EC: 911-490-9 REACH: 01-2119979579-10 REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BIS ETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4 -METHYLPHENYL)AMINO]-	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412		0.1 <= x % < 0.3

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 27813-02-1 EC: 248-666-3 REACH: 01-2119490226-37 METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL		oral: ATE = 7964 mg/kg BW
CAS: 79-10-7 EC: 201-177-9 REACH: 01-2119452449-31 ACRYLIC ACID	STOT SE 3: H335 C>= 1%	
CAS: 80-15-9 EC: 201-254-7 REACH: 01-2119475796-19 ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE	Skin Corr. 1B: H314 C>= 10% Skin Irrit. 2: H315 3% <= C < 10%	oral: ATE = 382 mg/kg BW
CAS: 109-16-0 EC: 203-652-6 REACH: 01-2119969287-21 2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE		oral: ATE = 10837 mg/kg BW
CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119565113-46 BUTYLATED HYDROXYTOLUENE		oral: ATE = 6000 mg/kg BW
CAS: 114-83-0 EC: 204-055-3 2'-PHENYLACETOHYDRAZIDE		oral: ATE = 270 mg/kg BW
CAS: 99-97-8 EC: 202-805-4 REACH: 01-2119956633-31 N,N-DIMETHYL-P-TOLUIDINE		inhalation: ATE = 1.4 mg/l 4h (vapours) oral: ATE = 139 mg/kg BW

EC: 911-490-9		oral: ATE = 619 mg/kg BW
REACH: 01-2119979579-10 REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BIS ETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4 -METHYLPHENYL)AMINO]-		

Information on ingredients :

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

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

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 :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation 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.

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

In the event of splashes or contact with skin :

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

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

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

If the contaminated aera 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.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- powder
- foam
- carbon dioxide (CO2)

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

No data available.

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 inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

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

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.

Fire prevention :

Handle in well-ventilated areas.

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 inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

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

Keep cool. IMPORTANT - if stored in bulk, must be kept in contact with air to aid stabilization.

Storage temperature: > 25 °C.

Hazardous polymerization may occur upon exposure to high temperature.

Packaging

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

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
79-10-7	29	10	59 (1 min)	20 (1 min)	-

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
79-10-7	2 ppm			Skin; A4	
128-37-0	2 (IFV) mg/m3			A4	

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

CAS	VME :	VME :	Excess	Notes
79-10-7		10 ppm 30 mg/m3		1(I); =2=
128-37-0		10 E mg/m3		4 (II)

- Australia (NOHSC: 3008, 1995) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
79-10-7	2 ppm 5.9 mg/m3			H	
128-37-0	10 mg/m3			H	

- Austria (BGBl. II Nr. 156/2021) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
79-10-7	10 ppm 29 mg/m3	20 ppm 59 mg/m3			
128-37-0	10 mg/m3				

- Belgium (Royal decree of 11/05/2021) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
79-10-7	2 ppm 6 mg/m3	20 ppm 59 mg/m3		D	
128-37-0	2 mg/m3				

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

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
79-10-7	10	29	20	59	(14)	-

128-37-0	-	10	-	-	-	-

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
79-10-7	10 ppm 29 mg/m3	20 ppm 59 mg/m3		
128-37-0	10 ppm	40 ppm		

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
128-37-0	10 mg/m3				

- USA / AIHA WEEL (American Industrial Hygiene Association, Workplace Environmental Exposure Limit, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
80-15-9	1 ppm			Skin	
99-97-8	0.5 ppm				

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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



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

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 :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Viton® (Hexafluoropropylene copolymer and vinylidene fluoride)
- Fluoroelastomer (FKM)

Thickness:	To be translated (XML)
Permeation time:	To be translated (XML)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

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

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

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

- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

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

- A1 (Brown)

- A

Organic compounds with high boiling point (> 65°C).

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state :	Viscous liquid.

Colour

Colour:	Red.

Odour

Odour threshold :	Not stated.
Odour:	Sharp.

Freezing point

Freezing point / Freezing range :	Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	> 150°C

Flammability

Flammability (solid, gas) :	Not stated.

Lower and upper explosion limit

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

Flash point

Flash Point 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.
pH :	Not stated.
	Neutral.

pH range :	~ 5

Kinematic viscosity

Viscosity :	~ 10000 cP

Solubility

Water solubility :	Dilutable.
Fat solubility :	Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water :	< 3

Vapour pressure

Vapour pressure (50°C) :	Not relevant.

Density and/or relative density

Density :	~ 1.1

Relative vapour density

Vapour density :	Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No data available.

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 dangerous reactions known under normal conditions of use.
Polymerizes in the event of a rise in temperature: the increase in pressure may cause the closed container to rupture.

10.4. Conditions to avoid

Avoid :
- frost
- heat
- exposure to light
- flames and hot surfaces

10.5. Incompatible materials

Keep away from :
- strong oxidising agents
- strong acids
- metals
- free radical initiators
- copper and alloys

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

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

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

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity :

REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4-METHYLPHENYL)AMINO]-

Oral route :	LD50 = 619 mg/kg bodyweight/day
	Species : Rat
Dermal route :	2,000 < LD50 <= 5000 mg/kg

N,N-DIMETHYL-P-TOLUIDINE (CAS: 99-97-8)

Oral route :	LD50 = 139 mg/kg bodyweight/day
	Species : Mouse
Inhalation route (Vapours) :	LC50 = 1.4 mg/l
	Species : Rat
	OECD Guideline 403 (Acute Inhalation Toxicity)
	Duration of exposure : 4 h

2'-PHENYLACETOHYDRAZIDE (CAS: 114-83-0)

Oral route :	LD50 = 270 mg/kg bodyweight/day
	Species : Mouse

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

Oral route :	LD50 = 6000 mg/kg bodyweight/day
	Species : Rat
	OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	2,000 < LD50 <= 5000 mg/kg
	Species : Rat
	OECD Guideline 402 (Acute Dermal Toxicity)

2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (CAS: 109-16-0)

Oral route :	LD50 = 10837 mg/kg bodyweight/day
	Species : Rat
Dermal route :	2,000 < LD50 <= 5000 mg/kg

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

Oral route :	LD50 = 382 mg/kg bodyweight/day
	Species : Rat

ACRYLIC ACID (CAS: 79-10-7)

Oral route :	LD50 >= 1000 mg/kg bodyweight/day
	Species : Rat
	OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (CAS: 27813-02-1)

Oral route :	LD50 = 7964 mg/kg bodyweight/day
	Species : Rat
	OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 5000 mg/kg

Species : Rabbit

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

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

CAS 99-97-8 : IARC Group 2B : The agent is possibly carcinogenic to humans.
CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
CAS 79-10-7 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful 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

REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4-METHYLPHENYL)AMINO]-

Fish toxicity :	LC50 >= 100 mg/l
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 48 mg/l
	Duration of exposure : 48 h

N,N-DIMETHYL-P-TOLUIDINE (CAS: 99-97-8)

Fish toxicity :	LC50 = 46 mg/l
	Species : Pimephales promelas
	Duration of exposure : 96 h
Algae toxicity :	ECr50 = 24.3 mg/l
	Species : Pseudokirchnerella subcapitata
	Duration of exposure : 72 h

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

Fish toxicity :	LC50 = 1.1 mg/l
	Species : Oryzias latipes
	Duration of exposure : 96 h
	NOEC = 0.053 mg/l
	Factor M = 1
	Species : Oryzias latipes
Crustacean toxicity :	EC50 >= 0.84 mg/l
	Factor M = 1
	Species : Daphnia magna
	Duration of exposure : 48 h
	NOEC = 0.061 mg/l
	Factor M = 1
	Species : Daphnia magna
	Duration of exposure : 21 days
Algae toxicity :	ECr50 = 0.758 mg/l
	Factor M = 1
	Duration of exposure : 72 h
	NOEC = 1.7 mg/l
	OECD Guideline 201 (Alga, Growth Inhibition Test)

2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (CAS: 109-16-0)

Fish toxicity :	LC50 = 16.4 mg/l
	Duration of exposure : 96 h
	0.1 < NOEC <= 1 mg/l
Crustacean toxicity :	NOEC = 32 mg/l
	Species : Daphnia magna

	Duration of exposure : 21 days
Algae toxicity :	ECr50 = 72.8 mg/l
	Species : Pseudokirchnerella subcapitata
	Duration of exposure : 72 h

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

Fish toxicity :	LC50 = 3.9 mg/l
	Duration of exposure : 96 h

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (CAS: 27813-02-1)

Fish toxicity :	LC50 > 493 mg/l
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 > 143 mg/l
	Species : Daphnia magna
	Duration of exposure : 48 h
	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	NOEC = 45.2 mg/l
	Species : Daphnia magna
	Duration of exposure : 21 days
Algae toxicity :	ECr50 > 97.2 mg/l
	Species : Pseudokirchnerella subcapitata
	Duration of exposure : 72 h
	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC = 97.2 mg/l

ACRYLIC ACID (CAS: 79-10-7)

Fish toxicity :	LC50 = 27 mg/l
	Species : Oncorhynchus mykiss
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 95 mg/l
	Species : Daphnia magna
	Duration of exposure : 48 h
Algae toxicity :	ECr50 = 0.13 mg/l
	Species : Desmodesmus subspicatus
	Duration of exposure : 72 h
	REACH Method C.3 (Algal Inhibition test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

REACTION MASS OF 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL AND ETHANOL 2-[[2-(2-HYDROXYETHOXY)ETHYL](4-METHYLPHENYL)AMINO]-

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

N,N-DIMETHYL-P-TOLUIDINE (CAS: 99-97-8)

Biodegradability :	Non-rapidly degradable.

2'-PHENYLACETOHYDRAZIDE (CAS: 114-83-0)

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

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

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

2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (CAS: 109-16-0)

Biodegradability :	Rapidly degradable.
	BOD5/COD = 0.75

ALPHA, ALPHA-DIMETHYLBENZYL HYDROPEROXIDE (CAS: 80-15-9)

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

ACRYLIC ACID (CAS: 79-10-7)

Biodegradability :	Rapidly degradable.
METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (CAS: 27813-02-1)	
Biodegradability :	Rapidly degradable. BOD5/COD = 0.8

12.3. Bioaccumulative potential

12.3.1. Substances

N,N-DIMETHYL-P-TOLUIDINE (CAS: 99-97-8)	
Octanol/water partition coefficient :	log Koe = 1.729 OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Bioaccumulation :	BCF = 33
BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)	
Octanol/water partition coefficient :	log Koe = 5.2
Bioaccumulation :	BCF = 598
ACRYLIC ACID (CAS: 79-10-7)	
Octanol/water partition coefficient :	log Koe = 0.46 OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Bioaccumulation :	BCF = 3.162
METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (CAS: 27813-02-1)	
Octanol/water partition coefficient :	log Koe = 0.97 OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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 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, 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) :

08 04 09 * waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number or ID number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Maritime transport in bulk according to IMO instruments

-

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 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 2 : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

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

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

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

Wording of the phrases mentioned in section 3 :

H242	Heating may cause a fire.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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
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).
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.