SAFETY DATA SHEET
According to SANS 10234, SANS 10228, SANS 11014 and Hazardous Chemical Substance Regs. (GNR. 1179 of 25 August 1995)

Sikalastic Metal Primer (B)

Revision Date 02.03.2023 | Version 2.0 | Print Date 02.03.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Sikalastic Metal Primer (B)

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

Product use : Primer, Corrosion protection
Product use : For professional users only.

1.3 Details of the supplier of the safety data sheet

Company name of supplier : Sika South Africa (Pty) Ltd
9 Hocking Place
Westmead
3608 Pinetown
South Africa
Telephone : +27 (0)31 792 6500
Telefax : +27 (0)31 700 1760
E-mail address of person responsible for the SDS : headoffice@za.sika.com

1.4 Emergency telephone number

+27 76 920 1930

SECTION 2: Hazards identification

Type of product : Mixture

2.1 Classification of the substance or mixture

Classification (SANS 10234)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (SANS 10234)

Sikalastic Metal Primer (B)

Hazard pictograms :

Signal word : Danger

Hazard statements :

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Prevention:	
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
Storage:	
P405	Store locked up.
Disposal:	
P501	Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 2-methylimidazole
4-methylpentan-2-one
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
3-aminomethyl-3,5,5-trimethylcyclohexylamine
4-nonylphenol, branched
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer
Fatty acids, tall-oil, reaction products with diethylenetriamine
Amines, polyethylenepoly-, triethylenetetramine fraction

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (SANS 10234)	Concentration (% w/w)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 2-methylimidazole	68002-42-6 01-2119967768-13-XXXX	Skin Sens.1B; H317	>= 40 - < 60
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1 01-2119972320-44-XXXX	Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1A; H317 Aquatic Chronic2; H411	>= 10 - < 20
4-methylpentan-2-one	108-10-1 203-550-1 01-2119473980-30-XXXX	Flam. Liq.2; H225 Acute Tox.4; H332 Eye Irrit.2; H319 Carc.2; H351 STOT SE3; H336	>= 10 - < 20
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32-XXXX	Acute Tox.4; H302 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1A; H317	>= 5 - < 10
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether ho-	68609-08-5	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1A;	>= 5 - < 10

mopolymer		H317 Aquatic Chronic3; H412	
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38-XXXX	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 5 - < 10
cyclohexanone	108-94-1 203-631-1 01-2119453616-35-XXXX	Flam. Liq.3; H226 Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Dam.1; H318	>= 5 - < 10
2,4,6-tris(dimethylaminomethyl)phenol Contains: bis[(dimethylamino)methyl]phenol <= 15 %	90-72-2 202-013-9 01-2119560597-27-XXXX	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318	>= 5 - < 10
4-nonylphenol, branched	84852-15-3 284-325-5 01-2119510715-45-XXXX	Acute Tox.4; H302 Skin Corr.1B; H314 Eye Dam.1; H318 Repr.2; H361fd Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 5 - < 10
reaction mass of ethylbenzene and xylene	Not Assigned 01-2119488216-32-XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 2,5 - < 5
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23-XXXX	Flam. Liq.3; H226 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336 STOT SE3; H335	>= 3 - < 5
Fatty acids, tall-oil, reaction products with diethylenetriamine	61790-69-0 263-160-2 01-2119487013-43-XXXX	Skin Corr.1C; H314 Skin Sens.1A; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 1 - < 2,5
salicylic acid	69-72-7 200-712-3	Acute Tox.4; H302 Eye Dam.1; H318	>= 1 - < 2,5

	01-2119486984-17-XXXX	Repr.2; H361d	
Amines, polyethylenepoly-, triethylenetetramine fraction Contains: 2-(2-aminoethylamino)ethanol <= 0,3 %	90640-67-8 292-588-2 01-2119487919-13-XXXX	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 0,25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.

If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Allergic reactions
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.

Risks : Health injuries may be delayed.

corrosive effects
sensitising effects
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of causing cancer.
Suspected of damaging fertility. Suspected of damaging the unborn child.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media : Water
High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Remove all sources of ignition.
Deny access to unprotected persons.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharge.
Open drum carefully as content may be under pressure.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
4-methylpentan-2-one	108-10-1	TWA	20 ppm 83 mg/m3	2000/39/EC
	Further information: Indicative			
		STEL	50 ppm 208 mg/m3	2000/39/EC
		OEL-RL	40 ppm	ZA OEL
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcinogenicity, which is based on GHS categorisation, including category 1A, 1B			
		OEL- RL STEL/C	150 ppm	ZA OEL
cyclohexanone	108-94-1	TWA	10 ppm 40,8 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	20 ppm 81,6 mg/m3	2000/39/EC
		OEL-RL	40 ppm	ZA OEL
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents			
		OEL- RL STEL/C	100 ppm	ZA OEL
reaction mass of ethylbenzene and xylene	Not Assigned	TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC

		OEL- RL STEL/C	300 ppm	ZA OEL
	Further information: danger of cutaneous absorption, Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents			
		OEL-RL	200 ppm	ZA OEL
2-methylpropan-1-ol	78-83-1	OEL-RL	100 ppm	ZA OEL
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
4-methylpentan-2-one	108-10-1	Methyl isobutyl ketone (MIBK): 1 mg/l (Urine)	End of shift	ZA BEI
cyclohexanone	108-94-1	1,2-Cyclohexanediol: 80 mg/l (Urine)	End of shift at end of workweek	ZA BEI
		Cyclohexanol: 8 mg/l (Urine)	End of shift	ZA BEI
reaction mass of ethylbenzene and xylene	Not Assigned	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift	ZA BEI

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water
Wear eye/face protection.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons

and protective boots are additionaly recommended for mixing and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor (Type A) and particulate filter
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
P1: Inert material; P2, P3: hazardous substances
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	various
Odour	:	amine-like
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit	:	7,5 %(V)
Lower explosion limit / Lower flammability limit	:	1,4 %(V)
Flash point	:	32 °C
Auto-ignition temperature	:	415 °C
Decomposition temperature	:	No data available
pH	:	Not applicable substance/mixture is non-soluble (in water)

Viscosity

Viscosity, kinematic	:	No data available

Solubility(ies)

Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	0,21 hPa
Density	:	1,34 g/cm3
Relative vapour density	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

4-methylpentan-2-one:

Acute oral toxicity	:	LD50 Oral (Rat): 2.080 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Test atmosphere: vapour Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 16.000 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity	:	Acute toxicity estimate: 1.030 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 LD50 Oral (Rat): 1.030 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg LD50 (Rabbit): > 2.000 - 5.000 mg/kg

benzyl alcohol:

Acute oral toxicity	:	LD50 Oral (Rat): 1.620 mg/kg Acute toxicity estimate: 1.620 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50 (Rat): > 4,178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Acute toxicity estimate: 4,178 mg/l Test atmosphere: dust/mist Method: Calculation method

cyclohexanone:

Acute oral toxicity	:	LD50 Oral (Rat): 1.530 mg/kg Acute toxicity estimate: 1.530 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50 (Rat): 10,7 mg/l Exposure time: 4 h Test atmosphere: vapour Acute toxicity estimate: 10,7 mg/l Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit): 948 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol:
Acute oral toxicity : LD50 (Rat): > 1.999 mg/kg
Remarks: Harmful if swallowed.
Annex VI - Harmonised
REGULATION (EC) No 1272/2008

4-nonylphenol, branched:
Acute oral toxicity : LD50 Oral (Rat): 1.412 mg/kg

Acute toxicity estimate: 1.412 mg/kg
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.160 mg/kg

reaction mass of ethylbenzene and xylene:
Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

salicylic acid:
Acute oral toxicity : LD50 Oral (Rat): 891 mg/kg

Acute toxicity estimate: 891 mg/kg
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Amines, polyethylenepoly-, triethylenetetramine fraction:
Acute oral toxicity : LD50 Oral (Rat): 1.716 mg/kg

Acute toxicity estimate: 1.716 mg/kg
Method: Calculation method

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 Dermal (Rabbit): 1.465 mg/kg

Acute toxicity estimate: 1.465 mg/kg
Method: Calculation method

Skin corrosion/irritation

Causes severe burns.

Components:

2,4,6-tris(dimethylaminomethyl)phenol:
Species: Rabbit
Assessment: Corrosive
Method: OECD Test Guideline 404

Assessment: irritating
Remarks: Annex VI - Harmonised
REGULATION (EC) No 1272/2008

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

2,4,6-tris(dimethylaminomethyl)phenol:
Species: Rabbit
Assessment: Causes serious eye damage.

Assessment: irritating
Remarks: Annex VI - Harmonised
REGULATION (EC) No 1272/2008

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): 7,07 mg/l Exposure time: 96 h
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 4,34 mg/l

Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 7,07 mg/l
Exposure time: 48 d
Species: Daphnia sp. (water flea)

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l
Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 1,5 mg/l
Exposure time: 72 h

benzyl alcohol:

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

cyclohexanone:

Toxicity to fish : LC50 (Fish): 527 mg/l
Exposure time: 96 h

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): > 10 - 100 mg/l
Exposure time: 72 h

4-nonylphenol, branched:

M-Factor (Short-term (acute) aquatic hazard) : 10

M-Factor (Long-term (chronic) aquatic hazard) : 10

reaction mass of ethylbenzene and xylene:

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l
Exposure time: 7 d
Species: Daphnia (water flea)

Fatty acids, tall-oil, reaction products with diethylenetriamine:

M-Factor (Short-term (acute) aquatic hazard)	:	10
M-Factor (Long-term (chronic) aquatic hazard)	:	1

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting potential	:	This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.
Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

Components:

4-nonylphenol, branched:

Endocrine disrupting potential	:	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European Waste Catalogue	:	08 01 11* waste paint and varnish containing organic solvents or other dangerous substances
Contaminated packaging	:	15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 3469
IMDG	:	UN 3469
IATA	:	UN 3469

14.2 UN proper shipping name

ADR	:	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
IMDG	:	PAINT RELATED MATERIAL, FLAMMABLE CORROSIVE (4-nonylphenol, branched)
IATA	:	Paint related material, flammable, corrosive

14.3 Transport hazard class(es)

		Class	Subsidiary risks
ADR	:	3	8
IMDG	:	3	8
IATA	:	3	8

14.4 Packing group

ADR

Packing group	:	III
Classification Code	:	FC
Hazard Identification Number	:	38
Labels	:	3 (8)
Tunnel restriction code	:	(D/E)

IMDG

Packing group	:	III

Labels	:	3 (8)
EmS Code	:	F-E, S-C

IATA (Cargo)

Packing instruction (cargo aircraft)	:	365
Packing group	:	III
Labels	:	Flammable Liquids, Corrosive

IATA (Passenger)

Packing instruction (passenger aircraft)	:	354
Packing group	:	III
Labels	:	Flammable Liquids, Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous	:	yes

IMDG

Marine pollutant	:	yes

IATA (Passenger)

Environmentally hazardous	:	yes

IATA (Cargo)

Environmentally hazardous	:	yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 4-nonylphenol, branched (Number on list 46b, 46a., 46a)
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
REACH - Candidate List of Substances of Very High	:	4-nonylphenol, branched

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	4-nonylphenol, branched

REACH Information: All substances contained in our Products are
- registered by our upstream suppliers, and/or
- registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS
E1	ENVIRONMENTAL HAZARDS

Volatile organic compounds	:	Law on the incentive tax for volatile organic compounds (VOCV) Volatile organic compounds (VOC) content: 26,5% w/w Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 26,5% w/w

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.

H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H361d	:	Suspected of damaging the unborn child.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
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.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
ZA BEI	:	South Africa. The Regulations for Hazardous Chemical Agents, Biological Exposure Indices
ZA OEL	:	South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
ZA OEL / OEL-RL	:	Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)
ZA OEL / OEL- RL STEL/C	:	Occupational Exposure Limit Restricted limit - Short term occupational exposure limits / ceiling limits
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 3	H226	Based on product data or assessment
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
Repr. 2	H361fd	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

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