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Product code: 1102290

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- | | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

- | | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear eye/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of Water and soap.. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P314 | Get medical advice/attention if you feel unwell. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P251 | Do not pierce or burn, even after use. |

Special labelling of certain mixtures

10 % by mass of the contents are flammable.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
68937-96-2	Polysulfides, di-tert-butyl	5 - < 10 %
	273-103-3	
	Skin Sens. 1, Aquatic Chronic 4; H317 H413	
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	3 - < 5 %
	270-128-1	
	Aquatic Chronic 3; H412	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	3 - < 5 %
	272-028-3	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	1 - < 3 %
	931-384-6	01-2119493620-38
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H318 H317 H411	
112-90-3	(Z)-octadec-9-enylamine	0.1 - < 1 %
	204-015-5	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H302 H314 H318 H335 H373 H304 H400 H410	
	reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptylderivs."	0.1 - < 1 %
	939-460-0	01-2119971727-23
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H315 H318 H317 H412	
25550-98-5	Diisododecylphenylphosphit	0.1 - < 1 %
	247-098-3	01-2119962888-14
	Skin Sens. 1; H317	
25448-25-3	Triisodecyl phosphite	0.1 - < 1 %
	246-998-3	01-2119964066-34
	Skin Sens. 1; H317	
72624-02-3	Phenol, heptyl derivs.	0.1 - < 1 %
	276-743-1	01-2119972228-30
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H302 H314 H318 H317 H400 H410	
26544-23-0	Isodecyl diphenyl phosphite	0.1 - < 1 %
	247-777-4	01-2119968254-31
	Skin Sens. 1; H317	

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.



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After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.



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Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Advice on storage compatibility

No special measures are necessary.

Further information on storage conditions

Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

- a no restriction
- b End of exposure or shift
- c in long-term exposure: after several shifts
- d prior to next shift

STEL (EC) : Short Term Exposure Limit

TWA (EC): time-weighted average

U: Urea

B: Blood

8.2. Exposure controls

Protective and hygiene measures

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.

Hand protection

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min

Thickness of the glove material 0,45 mm

DIN EN 374

Skin protection

Wear suitable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

Observe legal regulations and provisions.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: red
Odour: mild

Test method

pH-Value (at 20 °C): not applicable DIN 19268

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: No information available.
Flash point: > 150 °C

Flammability

Solid: not applicable
Gas: not applicable

Lower explosion limits: No information available.
Upper explosion limits: No information available.

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined
Vapour pressure: No information available.

Density: 0,91 g/cm³ DIN 51757
Bulk density: not applicable

Water solubility: The study does not need to be conducted
because the substance is known to be
insoluble in water

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: No information available.

Viscosity / kinematic: 1100 mm²/s

Flow time: not applicable

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: No information available.

Solvent content: No information available.

9.2. Other information

Solid content: not determined

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.



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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Protect from frost.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name			
	Exposure route	Dose	Species	Source
68937-96-2	Polysulfides, di-tert-butyl			
	oral	LD50 > 2000 mg/kg	Rat	
	dermal	LD50 > 2000 mg/kg	Rat	
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50 >5 mg/l	Rat	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts			
	oral	LD50 3100 mg/kg	Rat	
	dermal	LD50 5000 mg/kg	Rabbit	
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)			
	oral	LD50 >2000 mg/kg	Rat	
112-90-3	(Z)-octadec-9-enylamine			
	oral	LD50 888 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rat	
	inhalative (4 h) vapour	LC50 >20 mg/l	Rat	
	reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs."			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rat	
25550-98-5	Diisododecylphenylphosphit			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rat	
25448-25-3	Triisodecyl phosphite			
	oral	LD50 13800 mg/kg	Rat	
	dermal	LD50 >5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50 >12 mg/l	Rat	
72624-02-3	Phenol, heptyl derivs.			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
26544-23-0	Isodecyl diphenyl phosphite			
	oral	LD50 6730 mg/kg	Rat	
	dermal	LD50 >5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50 >8,4 mg/l	Rat	

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects



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May cause an allergic skin reaction. (Polysulfides, di-tert-butyl; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptylderivs.". ; Diisododecylphenylphosphit; Triisodecyl phosphite; Phenol, heptyl derivs.; Isodecyl diphenyl phosphite)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
No indications of human carcinogenicity exist.
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
68937-96-2	Polysulfides, di-tert-butyl				
	Acute fish toxicity	LC50 > 0,088 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 2,45 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 0,24 mg/l	48 h	Daphnia magna	
68411-46-1	Benzenamine, N-phenyl-,reaction products with 2,4,4-trimethylpentene				
	Acute fish toxicity	LC50 >100 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 >100 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)	
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts				
	Acute fish toxicity	LC50 >1 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 >1 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 >1 mg/l	48 h	Daphnia magna	
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
	Acute fish toxicity	LC50 24 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 15 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 91,4 mg/l	48 h	Daphnia magna	
112-90-3	(Z)-octadec-9-enylamine				
	Acute fish toxicity	LC50 (<1) mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 (<1) mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 (<1) mg/l	48 h	Daphnia magna (Big water flea)	
	reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol, heptylderivs."				
	Acute fish toxicity	LC50 26 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 9,2 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 75 mg/l	48 h	Daphnia magna (Big water flea)	
25550-98-5	Diisododecylphenylphosphit				
	Acute fish toxicity	LC50 >100 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50 45 mg/l	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50 > 2 mg/l	48 h	Daphnia magna	
72624-02-3	Phenol, heptyl derivs.				
	Acute fish toxicity	LC50 2,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 1,2 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 0,36 mg/l	48 h	Daphnia magna (Big water flea)	

12.2. Persistence and degradability



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The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.2
Classification code:	5A
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	3
Tunnel restriction code:	E

Inland waterways transport (ADN)



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14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.2
Classification code: 5A
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS ((Z)-octadec-9-enylamine)
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2, see SP63
Marine pollutant: yes
Special Provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantity: See SP277
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, non-flammable
14.3. Transport hazard class(es): 2.2
14.4. Packing group: -
Hazard label: 2.2
Special Provisions: A98 A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: (Z)-octadec-9-enylamine

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): No information available.
2004/42/EC (VOC): No information available.



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Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:
Calculation method.
Aerosol directive (75/324/EEC)

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 2 - water contaminating
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H413	May cause long lasting harmful effects to aquatic life.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)