

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code:

Product name

ZIRSM

IBS RIB SEAL MATT

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

Intended use

Protective cream for inflatable boats

Identified Uses	Industrial	Professional	Consumer
Neoprene and PVC protection			

1.3. Details of the supplier of the safety data sheet

Name

Full address

District and Country

IBS Marine Supplies Ltd

Unit 10 7 Airfield Road

BH23 3TQ Christchurch Dorset

England

Phone 01621 744250

e-mail address of the competent person responsible for the Safety Data Sheet

info@ibsparts.co.uk

1.4. Emergency telephone number

For urgent inquiries refer to

NHS in England: 111

NHS in Scotland: 111

NHS in Wales: 111 or 0845 4647

In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P337+P313 If eye irritation persists: Get medical advice / attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Contains: 2-METHYLISOTHIAZOL-3(2H)-ONE
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
1,2-BENZISOTHIAZOLIN-3-ONE
Hexanedioic acid dihydrazide

Product not intended for uses provided for by Directive 2004/42/EC.

Ingredients (Regulation 648/2004)

Less than 5% Non-ionic surfactants

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
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DIETHYLENE GLYCOL MONOETHYL ETHER		
INDEX -	6 ≤ x < 7	Eye Irrit. 2 H319
EC 203-919-7		
CAS 111-90-0		
ISOTRIDECANOL ETHOXYLATED		
INDEX -	1 ≤ x < 1,5	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 931-138-8		ATE Oral: 500 mg/kg
CAS 69011-36-5		
Hexanedioic acid dihidrazide		
INDEX -	0,35 ≤ x < 0,4	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 213-999-5		
CAS 1071-93-8		
AMMONIA		
INDEX 007-001-01-2	0,05 ≤ x < 0,1	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note according to Annex VI to the CLP Regulation: B
EC 215-647-6		STOT SE 3 H335: ≥ 5%
CAS 1336-21-6		
2-METHYLISOTHIAZOL-3(2H)-ONE		
INDEX 613-326-00-9	0,0015 ≤ x < 0,06	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH071
EC 220-239-6		Skin Sens. 1A H317: ≥ 0,0015%
CAS 2682-20-4		LD50 Oral: 120 mg/kg, LD50 Dermal: 242 mg/kg, LC50 Inhalation mists/powders: 0,11 mg/l/4h
1,2-BENZISOTHIAZOLIN-3-ONE		
INDEX 613-088-00-6	0 < x < 0,036	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 220-120-9		Skin Sens. 1A H317: ≥ 0,036%
CAS 2634-33-5		LD50 Oral: 450 mg/kg, LC50 Inhalation mists/powders: 0,21 mg/l/4h
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)		
INDEX 613-167-00-5	0 < x < 0,0015	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071, Classification note according to Annex VI to the CLP Regulation: B
EC -		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% - < 0,6%
CAS 55965-84-9		ATE Oral: 100 mg/kg, LD50 Dermal: 87,12 mg/kg, LC50 Inhalation mists/powders: 0,171 mg/l/4h

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes,

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opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If skin irritation or rash occurs: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

AMMONIA				
Threshold Limit Value				
Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3
				ppm

OEL	EU	14	20	36	50
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DIETHYLENE GLYCOL MONOETHYL ETHER						
Threshold Limit Value						
Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	35	6	70	12	11
MAK	DEU	50		100		INHAL
NGV/KGV	SWE	80	15	170 (C)	30 (C)	SKIN

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)						
Threshold Limit Value						
Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,2		0,4		INHAL

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Temperature: 20 °C
Colour	straw yellow	
Odour	mild	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	8	Concentration: 100 %
Kinematic viscosity	not available	
Solubility	partially miscible	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,03	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	6,80 %	-	69,99	g/litre
VOC (volatile carbon)	3,51 %	-	36,18	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

AMMONIA

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Corrodes: aluminium,iron,zinc,copper,copper alloys.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

AMMONIA

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

DIETHYLENE GLYCOL MONOETHYL ETHER

Forms explosive mixtures with: air.May react dangerously with: oxidising agents,aluminium.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

AMMONIA

Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

10.6. Hazardous decomposition products

AMMONIA

May develop: nitric oxide.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Information not available		
<u>Interactive effects</u>		
Information not available		
<u>ACUTE TOXICITY</u>		
ATE (Inhalation) of the mixture:		Not classified (no significant component)
ATE (Oral) of the mixture:		>2000 mg/kg
ATE (Dermal) of the mixture:		Not classified (no significant component)
<u>AMMONIA</u>		
LD50 (Oral):		350 mg/kg Rat
<u>1,2-BENZISOTHIAZOLIN-3-ONE</u>		
LD50 (Dermal):		> 2000 mg/kg Rat
LD50 (Oral):		450 mg/kg Rat
LC50 (Inhalation mists/powders):		0,21 mg/l/4h
<u>2-METHYLISOTHIAZOL-3(2H)-ONE</u>		
LD50 (Dermal):		242 mg/kg Rat
LD50 (Oral):		120 mg/kg Rat
LC50 (Inhalation mists/powders):		0,11 mg/l/4h Rat
<u>REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)</u>		
LD50 (Dermal):		87,12 mg/kg Rabbit
LD50 (Oral):		457 mg/kg Rat
LC50 (Inhalation mists/powders):		0,171 mg/l/4h Rat
<u>ISOTRIDECANOL ETHOXYLATED</u>		
LD50 (Dermal):		> 2000 mg/kg
LD50 (Oral):		> 2000 mg/kg
ATE (Oral):		500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
<u>Hexanedioic acid dihidrazide</u>		
LD50 (Dermal):		> 5000 mg/kg Rabbit
LD50 (Oral):		> 5000 mg/kg Rat
<u>SKIN CORROSION / IRRITATION</u>		
Does not meet the classification criteria for this hazard class		
<u>Hexanedioic acid dihidrazide</u>		
Brief contact may cause slight skin irritation with local redness		
<u>SERIOUS EYE DAMAGE / IRRITATION</u>		
Causes serious eye irritation		
<u>Hexanedioic acid dihidrazide</u>		
May cause mild eye irritation		
<u>RESPIRATORY OR SKIN SENSITISATION</u>		
Sensitising for the skin		
<u>Skin sensitization</u>		

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Hexanedioic acid dihydrazide
It detected the possibility of contact allergy in rats

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Hexanedioic acid dihydrazide
Negative in vitro studies

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Hexanedioic acid dihydrazide
No significant data detected

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Hexanedioic acid dihydrazide
No significant data detected

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Hexanedioic acid dihydrazide
In animals, effects have been reported on the following organs: Thymus, liver and blood

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

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AMMONIA		
LC50 - for Fish	47 mg/l/96h Channa punctata	
EC50 - for Crustacea	20 mg/l/48h Daphnia magna	
1,2-BENZISOTHIAZOLIN-3-ONE		
LC50 - for Fish	2,15 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea	2,9 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h Pseudokirchneriella subcapitata	
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l Pseudokirchneriella subcapitata	
2-METHYLISOTHIAZOL-3(2H)-ONE		
LC50 - for Fish	4,77 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea	0,934 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	0,103 mg/l/72h Raphidocelis subcapitata	
Chronic NOEC for Fish	4,93 mg/l Oncorhynchus mykiss	
Chronic NOEC for Crustacea	0,044 mg/l Daphnia magna	
Chronic NOEC for Algae / Aquatic Plants	0,05 mg/l Raphidocelis subcapitata	
REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)		
LC50 - for Fish	0,19 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea	0,16 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	0,0052 mg/l/72h Skeletonema costatum	
Chronic NOEC for Fish	0,02 mg/l Danio rerio	
Chronic NOEC for Crustacea	0,1 mg/l Daphnia magna	
Chronic NOEC for Algae / Aquatic Plants	0,00049 mg/l Skeletonema costatum	
ISOTRIDECANOL ETHOXYLATED		
LC50 - for Fish	> 1 mg/l/96h Danio rerio	
EC50 - for Crustacea	> 1 mg/l/48h	
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h	
EC10 for Algae / Aquatic Plants	2,6 mg/l/28d	
Hexanedioic acid dihidrazide		
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	9,19 mg/l/72h Pseudokirchneriella subcapitata	
LC10 for Fish	> 100 mg/l/96h Carpa	
12.2. Persistence and degradability		
AMMONIA		
Degradability: information not available		
DIETHYLENE GLYCOL MONOETHYL ETHER		
Solubility in water	1000 - 10000 mg/l	

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1,2-BENZISOTHIAZOLIN-3-ONE		
Solubility in water	1288 mg/l	
Rapidly degradable		
2-METHYLISOTHIAZOL-3(2H)-ONE		
Solubility in water	489000 mg/l	
Degradability: information not available		
REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)		
Solubility in water	> 10000 mg/l	
NOT rapidly degradable		
ISOTRIDECANOL ETHOXYLATED		
Rapidly degradable		
Hexanedioic acid dihidrazide		
NOT rapidly degradable		
12.3. Bioaccumulative potential		
DIETHYLENE GLYCOL MONOETHYL ETHER		
Partition coefficient: n-octanol/water	-0,54	
1,2-BENZISOTHIAZOLIN-3-ONE		
Partition coefficient: n-octanol/water	0,7	
BCF	6,62	
2-METHYLISOTHIAZOL-3(2H)-ONE		
Partition coefficient: n-octanol/water	-0,486	
BCF	5,75	
REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)		
Partition coefficient: n-octanol/water	0,75	
BCF	< 54	
Hexanedioic acid dihidrazide		
Partition coefficient: n-octanol/water	-2,05 Log Pow	
12.4. Mobility in soil		
Information not available		
12.5. Results of PBT and vPvB assessment		
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.		

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12.6. Endocrine disrupting properties

Hexanedioic acid dihydrazide
This substance is not considered to have endocrine disrupting properties.
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.

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<div><div>H314</div><div>Causes severe skin burns and eye damage.</div></div> <div><div>H318</div><div>Causes serious eye damage.</div></div> <div><div>H319</div><div>Causes serious eye irritation.</div></div> <div><div>H315</div><div>Causes skin irritation.</div></div> <div><div>H335</div><div>May cause respiratory irritation.</div></div> <div><div>H317</div><div>May cause an allergic skin reaction.</div></div> <div><div>H400</div><div>Very toxic to aquatic life.</div></div> <div><div>H410</div><div>Very toxic to aquatic life with long lasting effects.</div></div> <div><div>H411</div><div>Toxic to aquatic life with long lasting effects.</div></div> <div><div>EUH071</div><div>Corrosive to the respiratory tract.</div></div>		
<div>LEGEND:</div> <div><div>-</div><div>ADR: European Agreement concerning the carriage of Dangerous goods by Road</div></div> <div><div>-</div><div>ATE: Acute Toxicity Estimate</div></div> <div><div>-</div><div>CAS: Chemical Abstract Service Number</div></div> <div><div>-</div><div>CE50: Effective concentration (required to induce a 50% effect)</div></div> <div><div>-</div><div>CE: Identifier in ESIS (European archive of existing substances)</div></div> <div><div>-</div><div>CLP: Regulation (EC) 1272/2008</div></div> <div><div>-</div><div>DNEL: Derived No Effect Level</div></div> <div><div>-</div><div>EmS: Emergency Schedule</div></div> <div><div>-</div><div>GHS: Globally Harmonized System of classification and labeling of chemicals</div></div> <div><div>-</div><div>IATA DGR: International Air Transport Association Dangerous Goods Regulation</div></div> <div><div>-</div><div>IC50: Immobilization Concentration 50%</div></div> <div><div>-</div><div>IMDG: International Maritime Code for dangerous goods</div></div> <div><div>-</div><div>IMO: International Maritime Organization</div></div> <div><div>-</div><div>INDEX: Identifier in Annex VI of CLP</div></div> <div><div>-</div><div>LC50: Lethal Concentration 50%</div></div> <div><div>-</div><div>LD50: Lethal dose 50%</div></div> <div><div>-</div><div>OEL: Occupational Exposure Level</div></div> <div><div>-</div><div>PBT: Persistent, bioaccumulative and toxic</div></div> <div><div>-</div><div>PEC: Predicted environmental Concentration</div></div> <div><div>-</div><div>PEL: Predicted exposure level</div></div> <div><div>-</div><div>PMT: Persistent, mobile and toxic</div></div> <div><div>-</div><div>PNEC: Predicted no effect concentration</div></div> <div><div>-</div><div>REACH: Regulation (EC) 1907/2006</div></div> <div><div>-</div><div>RID: Regulation concerning the international transport of dangerous goods by train</div></div> <div><div>-</div><div>TLV: Threshold Limit Value</div></div> <div><div>-</div><div>TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.</div></div> <div><div>-</div><div>TWA: Time-weighted average exposure limit</div></div> <div><div>-</div><div>TWA STEL: Short-term exposure limit</div></div> <div><div>-</div><div>VOC: Volatile organic Compounds</div></div> <div><div>-</div><div>vPvB: Very persistent and very bioaccumulative</div></div> <div><div>-</div><div>vPvM: Very persistent and very mobile</div></div> <div><div>-</div><div>WGK: Water hazard classes (German).</div></div>		
<div>GENERAL BIBLIOGRAPHY</div> <div><div>1.</div><div>Regulation (EC) 1907/2006 (REACH) of the European Parliament</div></div> <div><div>2.</div><div>Regulation (EC) 1272/2008 (CLP) of the European Parliament</div></div> <div><div>3.</div><div>Regulation (EU) 2020/878 (II Annex of REACH Regulation)</div></div> <div><div>4.</div><div>Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament</div></div> <div><div>5.</div><div>Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament</div></div> <div><div>6.</div><div>Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament</div></div> <div><div>7.</div><div>Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament</div></div> <div><div>8.</div><div>Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament</div></div> <div><div>9.</div><div>Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament</div></div> <div><div>10.</div><div>Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</div></div> <div><div>11.</div><div>Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament</div></div> <div><div>12.</div><div>Regulation (EU) 2016/1179 (IX Atp. CLP)</div></div> <div><div>13.</div><div>Regulation (EU) 2017/776 (X Atp. CLP)</div></div> <div><div>14.</div><div>Regulation (EU) 2018/669 (XI Atp. CLP)</div></div>		

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- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
03 / 08 / 11 / 13.