Voluntary safety information based on the Safety Data Sheet in accordance with Annex II of Regulation (EC) No 1907/2006

TEROSON RB 81

SDS No. : 298882
V003.11
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SECTION 1: Identification of the article and of the company/undertaking

1.1. Product identifier
TEROSON RB 81

1.2. Relevant identified uses of the article and uses advised against
Intended use:
Sealant

1.3. Details of the supplier of the safety data sheet
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.
SDSinfo.Adhesive@henkel.com

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the article

Classification (CLP):
Substances and preparations marketed in a specific form or within specific containers need not to be classified according to the REACH Regulation Article 3 (3).

2.2. Label elements

Label elements (CLP):

Substances and preparations marketed in a specific form or within specific containers need not to be classified according to the REACH Regulation Article 3 (3).

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:
Manufactured item - article
Base substances of preparation:
Hydrocarbon resins

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
C,C'-azodi(formamide) 123-77-3 204-650-8 01-2119493056-35	5- < 10 %	Resp. Sens. 1, H334		SVHC
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3 201-286-1 01-2119982968-10	1- < 3 %	Self-react. D, H242 Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 STOT RE 2, H373 Aquatic Chronic 1, H410 Aquatic Acute 1, H400	M acute = 1 M chronic = 1 ===== oral:ATE = 1.001 mg/kg	
thiram 137-26-8 205-286-2 01-2119492301-45	0,1- < 1 %	STOT RE 2, H373 Acute Tox. 4, Oral, H302 Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Sens. 1, H317 Eye Irrit. 2, H319	M acute = 10 M chronic = 10	
di(benzothiazol-2-yl) disulphide 120-78-5 204-424-9 01-2119489366-24	0,1- < 1 %	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
not relevant.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the article
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove mechanically.
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities
Ensure good ventilation/extraction.

7.3. Specific end use(s)
Sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
C,C'-Azodi(formamide) 123-77-3 [AZODICARBONAMIDE]		1	Time Weighted Average (TWA):		EH40 WEL
C,C'-Azodi(formamide) 123-77-3 [AZODICARBONAMIDE]		3	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
C,C'-Azodi(formamide) 123-77-3 [AZODICARBONAMIDE (C,C'-AZODI(FORMAMIDE))]		1	Time Weighted Average (TWA):		IR_OEL
C,C'-Azodi(formamide) 123-77-3 [AZODICARBONAMIDE (C,C'-AZODI(FORMAMIDE))]		3	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3 [4,4'-OXYDI(BENZENESULPHONOHYDRAZIDE)]		0,1	Time Weighted Average (TWA):		IR_OEL
Thiram 137-26-8 [THIRAM (ISO)]		0,05	Time Weighted Average (TWA):		IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
C,C'-azodi(formamide) 123-77-3	Sewage treatment plant		8 mg/l				
C,C'-azodi(formamide) 123-77-3	aqua (intermittent releases)		0,0289 mg/l				
C,C'-azodi(formamide) 123-77-3	aqua (freshwater)		0,289 mg/l				
C,C'-azodi(formamide) 123-77-3	aqua (marine water)		0,0289 mg/l				
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	aqua (freshwater)		0,009 mg/l				
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	aqua (intermittent releases)		0,029 mg/l				
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	aqua (marine water)		0,0009 mg/l				
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Sewage treatment plant		0,5 mg/l				
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	sediment (freshwater)				0,03 mg/kg		
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	sediment (marine water)				0,003 mg/kg		
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Soil				0,002 mg/kg		
thiram 137-26-8	aqua (freshwater)		0,00046 mg/l				
thiram 137-26-8	sediment (freshwater)				0,047 mg/kg		
thiram 137-26-8	aqua (marine water)		0,000046 mg/l				
thiram 137-26-8	sediment (marine water)				0,0047 mg/kg		
thiram 137-26-8	Soil				0,00912 mg/kg		
thiram 137-26-8	sewage treatment plant (STP)		0,0311 mg/l				
thiram 137-26-8	oral				0,59 mg/kg		
thiram 137-26-8	aqua (intermittent releases)		0 mg/l				
Di(benzothiazol-2-yl) disulphide 120-78-5	sewage treatment plant (STP)		3,8 mg/l				
Di(benzothiazol-2-yl) disulphide 120-78-5	sediment (marine water)				0,022 mg/kg		
Di(benzothiazol-2-yl) disulphide 120-78-5	sediment (freshwater)				0,22 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
C,C'-azodi(formamide) 123-77-3	Workers	dermal	Long term exposure - systemic effects		14,03 mg/kg	
C,C'-azodi(formamide) 123-77-3	Workers	Inhalation	Long term exposure - systemic effects		0,5 mg/m3	
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Workers	inhalation	Long term exposure - systemic effects		0,7 mg/m3	
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Workers	inhalation	Long term exposure - local effects		0,1 mg/m3	
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Workers	dermal	Long term exposure - systemic effects		0,1 mg/kg	
thiram 137-26-8	Workers	inhalation	Long term exposure - systemic effects		0,118 mg/m3	
thiram 137-26-8	Workers	inhalation	Acute/short term exposure - systemic effects		0,564 mg/m3	
thiram 137-26-8	Workers	dermal	Long term exposure - systemic effects		1,6 mg/kg	
thiram 137-26-8	Workers	dermal	Acute/short term exposure - systemic effects		10 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	oral	Acute/short term exposure - systemic effects		10 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	oral	Long term exposure - systemic effects		1,25 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	Workers	Inhalation	Acute/short term exposure - systemic effects		70 mg/m3	
Di(benzothiazol-2-yl) disulphide 120-78-5	Workers	Inhalation	Long term exposure - systemic effects		8,8 mg/m3	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	Inhalation	Acute/short term exposure - systemic effects		17,6 mg/m3	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	Inhalation	Long term exposure - systemic effects		2,2 mg/m3	
Di(benzothiazol-2-yl) disulphide 120-78-5	Workers	dermal	Long term exposure - systemic effects		5 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	Workers	dermal	Acute/short term exposure - systemic effects		40 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	dermal	Long term exposure - systemic effects		2,5 mg/kg	
Di(benzothiazol-2-yl) disulphide 120-78-5	General population	dermal	Acute/short term exposure - systemic effects		20 mg/kg	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
Not needed.

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Protective goggles
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	solid material
Colour	Black
Odor	Rubber-like
Physical state	solid
Melting point	> 200 °C (> 392 °F)
Solidification temperature	Not applicable, Product is a solid.
Initial boiling point	Not applicable, Polymerizes before boiling point is reached.
Flammability	The product is not flammable.
Explosive limits	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
Auto-ignition temperature	Not applicable, Product is a solid.
Decomposition temperature	> 250 °C (> 482 °F);
pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic)	Not applicable, Product is a solid.
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (20 °C (68 °F))	< 0,1 hPa
Density (25 °C (77 °F))	1,1 g/cm3
Relative vapour density:	Not applicable, Product is a solid.
Particle characteristics	Not applicable Product is not powder.

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:
An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
C,C'-azodi(formamide) 123-77-3	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	LD50	> 1.000 - < 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Acute toxicity estimate (ATE)	1.001 mg/kg		Expert judgement
thiram 137-26-8	LD50	1.800 mg/kg	rat	not specified
di(benzothiazol-2-yl) disulphide 120-78-5	LD50	> 7.940 mg/kg	rat	not specified

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
C,C'-azodi(formamide) 123-77-3	LD50	> 2.000 mg/kg	rat	EU Method B.3 (Acute Toxicity (Dermal)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	LD50	> 2.000 mg/kg	rat	not specified
thiram 137-26-8	LD50	> 2.000 mg/kg	rabbit	EPA OPP 81-2 (Acute Dermal Toxicity)
di(benzothiazol-2-yl) disulphide 120-78-5	LD50	> 7.940 mg/kg	rabbit	not specified

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	LC50	> 0,52 mg/l	dust	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
thiram 137-26-8	LC50	4,42 mg/l	dust/mist	4 h	rat	EPA OPP 81-3 (Acute inhalation toxicity)

Skin corrosion/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	not irritating		rabbit	EPA OTS 798.4470 (Acute Dermal Irritation)

Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	not irritating		rabbit	EPA OTS 798.4500 (Acute Eye Irritation)
thiram 137-26-8	irritating		rabbit	EPA OPP 81-4 (Acute Eye Irritation)

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Result	Test type	Species	Method
C,C'-azodi(formamide) 123-77-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	sensitising			QSAR (Quantitative Structure Activity Relationship)
thiram 137-26-8	sensitising	Split adjuvant test	guinea pig	EPA OPP 81-6 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
C,C'-azodi(formamide) 123-77-3	ambiguous	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
C,C'-azodi(formamide) 123-77-3	negative		with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	positive	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro			equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells
thiram 137-26-8	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		EPA OPP 84-2 (Mutagenicity Testing)
thiram 137-26-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
thiram 137-26-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity

No data available.

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
C,C'-azodi(formamide) 123-77-3	NOAEL P > 1.000 mg/kg		oral: gavage	rat	OECD Guideline 415 (One-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	NOAEL 10 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
thiram 137-26-8	NOAEL 3,5 - 4 mg/kg	oral: feed	90 d daily	rat	EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	LC50	> 10.000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	LC50	> 6,6 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	NOEC	0,09 mg/l	45 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
thiram 137-26-8	LC50	0,046 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
thiram 137-26-8	NOEC	0,0046 mg/l	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
di(benzothiazol-2-yl) disulphide 120-78-5	LC50	82 mg/l		Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	EC50	11 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	EC50	0,69 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
thiram 137-26-8	EC50	0,21 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
di(benzothiazol-2-yl) disulphide 120-78-5	LC50	82 mg/l	48 h	Daphnia magna	not specified

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	NOEC	2,89 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	NOEC	2,13 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
thiram 137-26-8	NOEC	0,04 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	EC50	36 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
C,C'-azodi(formamide) 123-77-3	EC10	> 14,4 - 19,2 mg/l	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	EC50	0,35 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	NOEC	0,059 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
thiram 137-26-8	EC50	1 mg/l	96 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
di(benzothiazol-2-yl) disulphide 120-78-5	EC50	0,6 mg/l	96 h		not specified

Toxicity (microorganisms):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C,C'-azodi(formamide) 123-77-3	EC50	800 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	EC50	> 20 mg/l	30 min	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
thiram 137-26-8	EC0	> 200 mg/l			not specified
di(benzothiazol-2-yl) disulphide 120-78-5	EC 50	> 10.000 mg/l	3 h		ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
C,C'-azodi(formamide) 123-77-3	readily biodegradable	aerobic	70 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	not readily biodegradable.	aerobic	10,9 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
thiram 137-26-8		aerobic	20 - 40 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
di(benzothiazol-2-yl) disulphide 120-78-5		aerobic	2 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	3	42 d	25 °C	Cyprinus sp.	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
C,C'-azodi(formamide) 123-77-3	-1,7	21 °C	EU Method A.8 (Partition Coefficient)
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	0,08		QSAR (Quantitative Structure Activity Relationship)
thiram 137-26-8	1,73	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
di(benzothiazol-2-yl) disulphide 120-78-5	4,66		not specified

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
C,C'-azodi(formamide) 123-77-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
4,4'-Oxydi(benzenesulphonohydrazide) 80-51-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
thiram 137-26-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
di(benzothiazol-2-yl) disulphide 120-78-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
080499

SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the article

VOC content 0,0 %
(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H242 Heating may cause a fire.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
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.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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