Safety Data Sheet

According to Regulation (EC) No 1907/2006

TASKI Jontec Nobile Plus

Revision: 2022-09-27 **Version:** 02.0

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

1.1 Product identifier

Trade name: TASKI Jontec Nobile Plus

UFI: KGE2-P08Y-T00W-4FPG

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

Product use:	Floor polish/impregnating agent. For professional use only.
Uses advised against:	Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :
AISE_SWED_PW_8a_1
AISE_SWED_PW_8b_1
AISE_SWED_PW_4_2

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

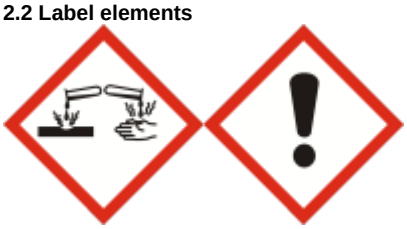
Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4 (H302)
Skin Irrit. 2 (H315)
Eye Dam. 1 (H318)

2.2 Label elements



Signal word: Danger.

Contains oxalic acid dihydrate (Oxalic Acid), magnesium hexafluorosilicate (Magnesium Fluorosilicate)

Hazard statements:
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

Precautionary statements:
P280 - Wear eye or face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
oxalic acid dihydrate	205-634-3	6153-56-6	01-2119534576-33	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Dam. 1 (H318)		30-50
sulphur	231-722-6	7704-34-9	01-2119487295-27	Skin Irrit. 2 (H315)		20-30
diammonium oxalate monohydrate	214-202-3	6009-70-7	-	Acute Tox. 4 (H302) Acute Tox. 4 (H312)		10-20
aluminium oxide	215-691-6	1344-28-1	-	Not classified as hazardous		10-20
magnesium hexafluorosilicate	241-022-2	16949-65-8	01-2119980031-47	Acute Tox. 3 (H301) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information: Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. Call a POISON CENTRE, doctor or physician if you feel unwell. If skin irritation occurs: Get medical advice or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Call a POISON CENTRE, doctor or physician. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact: Causes severe or permanent damage.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture
No special hazards known.

5.3 Advice for firefighters
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear eye/face protection. Repeated or prolonged contact:. Wear suitable gloves.

6.2 Environmental precautions
Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up
Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.
Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.
Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
oxalic acid dihydrate	1 mg/m³	2 mg/m³
aluminium oxide	10 mg/m³ inhalable dust 4 mg/m³ respirable dust	30 mg/m³ inhalable dust 12 mg/m³ respirable dust
magnesium hexafluorosilicate	2.5 mg/m³	7.5 mg/m³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values
Human exposure
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
oxalic acid dihydrate	-	-	-	1.14
sulphur	-	-	-	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
oxalic acid dihydrate	0.69 mg/cm² skin	-	No data available	1.14
sulphur	No data available	-	No data available	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
oxalic acid dihydrate	0.35 mg/cm² skin	-	No data available	1.14
sulphur	No data available	-	No data available	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
oxalic acid dihydrate	-	-	-	4.03
sulphur	-	-	-	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
oxalic acid dihydrate	-	-	-	-
sulphur	-	-	-	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
oxalic acid dihydrate	0.1622	0.01622	1.622	1550
sulphur	-	-	-	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
oxalic acid dihydrate	-	-	-	-
sulphur	-	-	-	-
diammonium oxalate monohydrate	No data available	No data available	No data available	No data available
aluminium oxide	No data available	No data available	No data available	No data available
magnesium hexafluorosilicate	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 166).

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 50

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated system	AISE_SWED_PW_4_2	PW	PROC 4	480	ERC8a

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 166).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Solid
Appearance: Powder
Colour: White
Odour: Product specific
Odour threshold: Not applicable
Melting point/freezing point (°C): Not determined — Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined — Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
oxalic acid dihydrate	Product decomposes before boiling	Method not given	1013
sulphur	No data available		
diammonium oxalate monohydrate	No data available		
aluminium oxide	No data available		
magnesium hexafluorosilicate	No data available		

Method / remark

Flammability (solid, gas): Not determined
Flammability (liquid): Not applicable.
Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

	Method / remark
Autoignition temperature: Not determined	
Decomposition temperature: Not applicable.	
pH: Not applicable	
Dilution pH: < 2 (50 %)	ISO 4316
Kinematic viscosity: Not determined	Not applicable to solids or gases
Solubility in / Miscibility with water: Soluble	

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
oxalic acid dihydrate	100	Method not given	25
sulphur	No data available		
diammonium oxalate monohydrate	No data available		
aluminium oxide	No data available		
magnesium hexafluorosilicate	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

	Method / remark
Vapour pressure: Not determined	See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
oxalic acid dihydrate	Negligible	Method not given	20
sulphur	No data available		
diammonium oxalate monohydrate	No data available		
aluminium oxide	No data available		
magnesium hexafluorosilicate	No data available		

	Method / remark
Relative density: ≈ 1.00 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: No data available.	Not applicable to solids
Particle characteristics: Not determined.	Not relevant to classification of this product.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.	
Oxidising properties: Not oxidising.	
Corrosion to metals: Not determined	Not applicable to solids or gases

9.2.2 Other safety characteristics

No other relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):
ATE - Oral (mg/kg): 490
ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
oxalic acid dihydrate	LD_{50}	375	Rat	Method not given		1100
sulphur		> 2000				Not established
diammonium oxalate monohydrate		No data available				2000
aluminium oxide		No data available				Not established
magnesium hexafluorosilicate		No data available				2000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
oxalic acid dihydrate	LD_{50}	20000	Rabbit	Method not given		11000
sulphur		No data available				Not established
diammonium oxalate monohydrate		No data available				6100
aluminium oxide		No data available				Not established
magnesium hexafluorosilicate		No data available				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
oxalic acid dihydrate		No data available			
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
oxalic acid dihydrate	Not established	Not established	Not established	Not established
sulphur	Not established	Not established	Not established	Not established
diammonium oxalate monohydrate	Not established	Not established	Not established	Not established
aluminium oxide	Not established	Not established	Not established	Not established
magnesium hexafluorosilicate	Not established	Not established	Not established	Not established

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
oxalic acid dihydrate	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
oxalic acid dihydrate	Severe damage		Method not given	
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
oxalic acid dihydrate	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
oxalic acid dihydrate	Not sensitising		Method not given	
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
oxalic acid dihydrate	No data available			
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
oxalic acid dihydrate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
sulphur	No data available		No data available	
diammonium oxalate monohydrate	No data available		No data available	
aluminium oxide	No data available		No data available	
magnesium hexafluorosilicate	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
oxalic acid dihydrate	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available
aluminium oxide	No data available
magnesium hexafluorosilicate	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
oxalic acid dihydrate			No data available				
sulphur			No data available				
diammonium oxalate monohydrate			No data available				
aluminium oxide			No data available				
magnesium hexafluorosilicate			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
oxalic acid dihydrate		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
oxalic acid dihydrate	LOAEL	150	Rat	Method not given		
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
oxalic acid dihydrate		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
oxalic acid dihydrate			No data available					
sulphur			No data available					
diammonium oxalate monohydrate			No data available					
aluminium oxide			No data available					
magnesium hexafluorosilicate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
oxalic acid dihydrate	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available
aluminium oxide	No data available
magnesium hexafluorosilicate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
oxalic acid dihydrate	No data available
sulphur	No data available
diammonium oxalate monohydrate	No data available
aluminium oxide	No data available
magnesium hexafluorosilicate	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Endocrine disrupting properties - Human data, if available:

11.2.2 Other information
No other relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity
Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
oxalic acid dihydrate	LC_{50}	160	*Carassius auratus*	Method not given	48
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
oxalic acid dihydrate	EC_{50}	162.2	*Daphnia magna Straus*	Method not given	48
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
oxalic acid dihydrate	IC_{50}	80		Method not given	192
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
oxalic acid dihydrate		No data available			
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure

		(mg/l)			time
oxalic acid dihydrate	EC_{50}	1550		Method not given	16 hour(s)
sulphur		No data available			
diammonium oxalate monohydrate		No data available			
aluminium oxide		No data available			
magnesium hexafluorosilicate		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
oxalic acid dihydrate		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
oxalic acid dihydrate		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
oxalic acid dihydrate		No data available				
sulphur		No data available				
diammonium oxalate monohydrate		No data available				
aluminium oxide		No data available				
magnesium hexafluorosilicate		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
oxalic acid dihydrate	EC_{50}	1				

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
oxalic acid dihydrate			89 % in 20 day(s)	Weight of evidence	Readily biodegradable
sulphur					Not applicable (inorganic substance)
diammonium oxalate monohydrate					Readily biodegradable
aluminium oxide					Not applicable (inorganic substance)
magnesium hexafluorosilicate					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
oxalic acid dihydrate	-1.7	Method not given	No bioaccumulation expected	
sulphur	No data available			
diammonium oxalate monohydrate	No data available			
aluminium oxide	No data available			
magnesium hexafluorosilicate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
oxalic acid dihydrate	No data available				
sulphur	No data available				
diammonium oxalate monohydrate	No data available				
aluminium oxide	No data available				
magnesium hexafluorosilicate	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
oxalic acid dihydrate	No data available				Potential for mobility in soil, soluble in water
sulphur	No data available				
diammonium oxalate monohydrate	No data available				
aluminium oxide	No data available				
magnesium hexafluorosilicate	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue: 16 03 05* - organic wastes containing dangerous substances.

Empty packaging
Recommendation: Dispose of observing national or local regulations.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)
14.1 UN number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

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

National regulations :
• Regulation (EC) 1907/2006 - REACH (UK amended)
• Regulation (EC) 1272/2008 - CLP (UK amended)
• Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
• Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
• International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Comah - classification: Not classified

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1002306 **Version:** 02.0 **Revision:** 2022-09-27

Reason for revision:
This data sheet contains changes from the previous version in section(s):, 2, 3, 8, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

Classification procedure
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:
• H301 - Toxic if swallowed.
• H302 - Harmful if swallowed.
• H312 - Harmful in contact with skin.
• H315 - Causes skin irritation.
• H318 - Causes serious eye damage.
• H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:
• AISE - The international Association for Soaps, Detergents and Maintenance Products
• ATE - Acute Toxicity Estimate
• DNEL - Derived No Effect Limit
• EC50 - effective concentration, 50%
• ERC - Environmental release categories
• EUH - CLP Specific hazard statement
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• LCS - Life cycle stage

- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet