

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/4/2020 Version: 1.0

	nce/mixture and of the company/undertaking
1.1. Product identifier	Orde strange
Product form	: Substance
Substance name	: Amidinothiourea
IUPAC name	: 1-(Diaminomethylidene)thiourea
EC-No.	: 218-308-0
CAS-No.	: 2114-02-5
Product code	: 90026829
Formula	: C2H6N4S
Product group	: Raw material
1.2. Relevant identified uses of the substance	e or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data	sheet
Supplier	
Scafell Organics	
Molekula Ltd Lingfield Way	
Darlington - England	
T +44 (0) 3302 000 333	
info@molekula.com / kevinbanks@molekula.com - w	ww.molekula.com
1.4. Emergency telephone number	AA (0) 7700070007
Emergency number : +	44 (0) 7769276927
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixtu	re
Classification according to Regulation (EC) No. 12	
Acute toxicity (oral), Category 4 H302	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Cate Respiratory tract irritation	egory 3, H335
Full text of H statements : see section 16	
Adverse physicochemical, human health and envi	ironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2	008 [CLP]
Hazard pictograms (CLP)	
	GHS07
Signal Word (CLP)	· Warning
Signal word (CLP)	: Warning : H302 - Harmful if swallowed
Signal word (CLP) Hazard statements (CLP)	: Warning : H302 - Harmful if swallowed. H315 - Causes skin irritation.
	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
	: H302 - Harmful if swallowed. H315 - Causes skin irritation.

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 Precautionary statements (CLP)
 : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

 P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	Product identifier	%
Amidinothiourea	(CAS-No.) 2114-02-5 (EC-No.) 218-308-0	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects after inhalation	: Irritation to throat. Headache. Cough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical at	ttention and special treatment needed
Get immediate medical advice/attention.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ent and emergency procedures	
General measures : Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, sparks. Eliminate all sources of ignition.		
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.	

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Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.	
6.4. Reference to other sections		

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.	
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, including a	any incompatibilities	
Technical measures	: Ensure adequate ventilation, especially in confined areas.	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.	
Incompatible products	: Strong oxidizing agents.	
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.	
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
Storage area	: Store below 20 °C. Store in a dry place. Store in a closed container.	
7.3. Specific end use(s)		

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety procedures. Personal protective equipment: Avoid all unnecessary exposure. Materials for protective clothing: Wear suitable protective clothing, gloves and eye/face protection Hand protection: The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374 Material Standard Type Permeation Thickness (mm) Penetration

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Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11	EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

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Туре	Standard	
Protective clothing (with elasticated cuffs and closed neck)	EN ISO 13982	
Respiratory protection:		
Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended		

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Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387, EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 118.16 g/mol	
Colour	: White to off-white.	
Odour	: odourless.	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 171 - 173 °C	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.
Sulphur oxides.

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SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information						
12.1. Toxicity						
Hazardous to the aquatic environment, short-term : Not classified (acute)						
Hazardous to the aquatic environment, long-term : Not classified (chronic)						
12.2. Persistence and degradability						
Amidinothiourea (2114-02-5)						
Persistence and degradability	No data available.					
12.3. Bioaccumulative potential						
Amidinothiourea (2114-02-5)						
Bioaccumulative potential	No data available.					
12.4. Mobility in soil						
No additional information available						
12.5. Results of PBT and vPvB assessment						
Amidinothiourea (2114-02-5)						
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII						
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII						
12.6. Other adverse effects						
Additional information :	Avoid release to the environment.					
SECTION 13: Disposal considerations						
13.1. Waste treatment methods						

13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number	1	1	1	1			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.2. UN proper shippin	g name			1			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.3. Transport hazard o	-						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.4. Packing group	Hetrogalatea	Hetrogulated	Hetrogulated	Hotrogulatou			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.5. Environmental haz	-	Not regulated	Not regulated	Not regulated			
		Not required	Not resultated	Net ve vulete d			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
No supplementary informatio 4.6. Special precautions							
verland transport	s ioi usei						
lot regulated							
ransport by sea							
lot regulated							
ir transport							
ot regulated							
land waterway transport							
ot regulated							
ail transport							
ot regulated							
lot applicable	ccording to Annex II of M						
SECTION 15: Regulato		s/legislation specific for	the substance or mixture	2			
5.1.1. EU-Regulations	sinni oninentai regulation	snegislation specific for		6			
lo REACH Annex XVII restric	ctions						
midinothiourea is not on the							
Directive 2012/18/EU (SEVES	50 III)						
5.1.2. National regulations lo additional information avai	ilabla						
5.2. Chemical safety as							
		e substance or the mixture by	the supplier				
SECTION 16: Other inf							
oata sources) No 1272/2008 OF THE EUR classification, labelling and particular technology					
		s 67/548/EEC and 1999/45/EC	C, and amending Regulation (EC) No 1907/2006.			
Other information	: None.						
Full text of H- and EUH-sta	atements:						
Acute Tox. 4 (Oral)	Acute toxicity (oral	Acute toxicity (oral), Category 4					
Eye Irrit. 2	Serious eye dama	ge/eye irritation, Category 2					
Skin Irrit. 2	Skin corrosion/irrit	ation, Category 2					
STOT SE 3	Specific target org	an toxicity — Single exposure	, Category 3, Respiratory trac	et irritation			
H302	Harmful if swallow	ed.					
H315	Causes skin irritati	on.					
H319		Causes serious eye irritation.					
H335	May cause respira						

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.