# Safety Data Sheet

according to UK REACH Regulation

Issue date: 27/01/2016 Revision date: 08/12/2022 Supersedes: 12/04/2022 Version: 3.0

SDS No: 12301-0028



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

#### 1.1. Product identifier

: Mixture Product form

Product name : Molybdate No.2 HR

Product code 00513079(BT), 513070(BT), 513071(BT), 513073, 4513070(BT), 4513071(BT), 00513071

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Reagent for water analysis

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Sentinel Performance Solutions LTD

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#### 1.4. Emergency telephone number

: +44 (0)1928 704 339 (24 hours, 7 days) Emergency number

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Classification according to GB CLP Regulation

Serious eye damage/eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317

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

# Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

# 2.2. Label elements

#### Labelling according to GB CLP Regulation

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Contains : Calcium thioglycolate trihydrate

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust.

> P280 - Wear protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of 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.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium thioglycolate trihydrate	(CAS-No.) 65208-41-5 (EC-No.) 613-757-2 (REACH-no) 01-2119968563-26	≥ 10 – < 25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

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

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Make the affected person

rest and keep at warm.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash skin with plenty of water. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if

present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Call a poison center or a

doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction. Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May cause irritation to the digestive tract. Thirst. Dizziness, headaches, nausea.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : Sulphur oxides. Sodium

oxide. Hydrogen sulfide. Nitrogen oxides.

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting

to enter drains or water courses.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Fire residues and contaminated firefighting water must be disposed of in accordance with

the local regulations.

# **SECTION 6: Accidental release measures**

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

General measures : Ensure adequate air ventilation.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Do not breathe dust. Avoid contact with skin, eyes and

clothing.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use. Store in a well-ventilated

place. Keep cool. Material is hygroscopic. Protect from moisture.

Incompatible materials : oxidizing materials. Aluminium.

Storage temperature : 20 °C +/- 5°C

Heat and ignition sources : Keep away from heat and direct sunlight.

Packaging materials : Do not use metal containers.

# 7.3. Specific end use(s)

See Section 1.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber (NBR)	1 (> 10 minutes)	> 0,11		EN ISO 374

#### Eye protection:

Protective goggles (EN 166)

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Breathing apparatus with filter	P2	Dust protection, Mist formation	

# **Environmental exposure controls:**

Avoid release to the environment.

### Other information:

Explosive properties

Do not eat, drink or smoke in areas where product is used.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance tablet. Colour White. Odour Disagreeable. Odour threshold : No data available

pН

: 10.9 : 12.06 g/l (20°C) pH solution Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : Not applicable Boiling point : No data available : No data available Flash point Auto-ignition temperature : Not self-igniting 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 : Soluble in water. Log Pow : No data available : Not applicable Viscosity, kinematic Viscosity, dynamic : No data available

: Product is not explosive.

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028

**SENTINEL**°

Oxidising properties : Non oxidizing. Explosive limits : Not applicable

#### 9.2. Other information

VOC content : 0 %
Percent Solids : 100%

# **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 normal conditions.

#### 10.3. Possibility of hazardous reactions

Exothermic reaction on contact with : oxidizing materials.

#### 10.4. Conditions to avoid

Overheating.

### 10.5. Incompatible materials

metals. Aluminium.

# 10.6. Hazardous decomposition products

No hazardous decomposition products known.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Calcium thioglycolate trihydrate (6520)	8-41-5)
LC50 Inhalation - Rat	> 2729 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: (OECD 404 method) (Based on available data, the classification criteria are not met) pH: 10.9
Serious eye damage/irritation	: Causes serious eye irritation. pH: 10.9
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Calcium thioglycolate trihydrate (65208-41-5)	
` ' ' ' ' '	O mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-ay Oral Toxicity Study in Rodents)

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



LOAEL (dermal, rat/rabbit, 90 days)	11.25 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 180 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Do not discharge into drains or the environment.

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

(acute)
Hazardous to the aquatic environment, long-term

: Not classified (Based on available data, the classification criteria are not met)

(chronic)

Calcium thioglycolate trihydrate (65208-41-5)	
LC50 fish 1	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	38 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

# 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Additional information : Do not allow uncontrolled discharge of product into the environment. Prevent entry to

sewers and public waters. Danger of pollution of drinking water when product enters the soil

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Do not dispose of with domestic waste.

Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local

regulation.

European List of Waste (LoW) code : 16 05 06\* - laboratory chemicals consisting of or containing dangerous substances including

mixtures of laboratory chemicals

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

# 14.6. Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

### Rail transport

Not applicable

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

Not applicable

# **SECTION 15: Regulatory information**

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

# 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

VOC content : 0 %

#### Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not subject to the Seveso III Directive

# 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

# Safety Data Sheet

according to UK REACH Regulation

SDS No: 12301-0028



Indication of changes:			
Section	Changed item	Change	Comments
2.3		Modified	
5		Modified	
10		Modified	
11		Modified	
12.		Modified	
15		Modified	

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Sens. 1	Skin sensitisation, Category 1

# Safety Data Sheet

according to UK REACH Regulation SDS No: 12301-0028





STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

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 therefore not be construed as guaranteeing any specific property of the product.