# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 27/01/2016

Revision date: 12/11/2018 Supersedes: 16/02/2018

SDS No: 12301-0028



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

#### 1.1. Product identifier

Product form : Mixture

Product name : Molybdate No.2 HR

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

Version: 2.0

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

### 1.2.1. Relevant identified uses

: Reagent for water analysis Use of the substance/mixture

### 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

7650 Daresbury

Warrington, Cheshire, WA4 4BS - Great Britain T +44 (0)1928 704 330 - F +44 (0)1928 562 070

info.uk@sentinelprotects.com

# 1.4. Emergency telephone number

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

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazardous ingredients : 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.

## 2.3. Other hazards

PBT : According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained

in this product are a PBT / vPvB substance.

vPvB : According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained

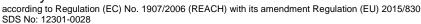
in this product are a PBT / vPvB substance.

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

## 3.1. Substances

Not applicable

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#### 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.) 249-881-5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-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

advice.

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.

# 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.

# 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.

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

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

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

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.

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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.

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

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.

: 20 °C +/- 5°C Storage temperature

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 Heading 1.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 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 374

# Eye protection:

Safety glasses

## 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:

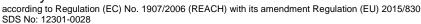
Do not eat, drink or smoke in areas where product is used.

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

# 9.1. Information on basic physical and chemical properties

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

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pH : 10.9

pH solution : 12.06 g/l (20°C) Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : Not applicable **Boiling point** : No data available Flash point : No data available : Not self-igniting Auto-ignition temperature Decomposition temperature : No data available : Non flammable Flammability (solid, gas) : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Soluble in water.

Log Pow : No data available

Viscosity, kinematic : Not applicable

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing

Oxidising properties : Non oxidizing. Explosive limits : Not applicable

## 9.2. Other information

Viscosity, dynamic

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

Sulphur oxides. Sodium oxide. Hydrogen sulfide. Nitrogen oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

## **Molybdate No.2 HR**

LD50 oral rat	> mg/kg
LD50 dermal rabbit	> mg/kg

Skin corrosion/irritation : (OECD 404 method)

pH: 10.9

: No data available

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
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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

: Not classified Acute aquatic toxicity Chronic aquatic toxicity : Not classified

## 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.

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

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

soil

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

European List of Waste (LoW) code

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.

: 16 05 06\* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

# **SECTION 14: Transport information**

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

The decordance with Abrel 1 the Control of the Cont				
ADR	IMDG	IATA	ADN	RID
14.1. UN number	14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	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

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## 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 REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

VOC content : 0 %

## 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**

## Indication of changes:

All chapters have been modified since the previous version.

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/		
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	

		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		

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2		
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Sens. 1 Skin sensitisation, Category 1		
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H290 May be corrosive to metals.		

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Harmful if swallowed.	
May cause an allergic skin reaction.	
Causes serious eye irritation.	
May cause respiratory 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 not therefore be construed as guaranteeing any specific property of the product.