



Be Right™

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# 23522-23 Molybdenum 2 Reagent

Revision date: 16.11.2017 Product code: 2352523 Page 1 of 9

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

#### 1.1. Product identifier

23522-23 Molybdenum 2 Reagent

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

### Use of the substance/mixture

Water analysis

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

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
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Responsible Department: HACH LANGE Ltd.

5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324

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HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

### **SECTION 2: Hazards identification**

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

### Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Triton X-114

Signal word: Warning

Pictograms:





### **Hazard statements**

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.



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### **Precautionary statements**

P264 Wash hands thoroughly after handling. P273 Avoid release to the environment.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

#### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

#### 2.3. Other hazards

None known.

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

#### 3.2. Mixtures

#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•	•		
7732-18-5	Water				
	231-791-2				
9036-19-5	Triton X-114				
	-				
	Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1 (M-Factor = 1); H302 H318 H400 H410				
57-09-0	Cetyltrimethylammonium Bromide				
	200-311-3				
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H319 H335 H400 H410				

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

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

Take off all contaminated clothing immediately.

### After inhalation

Move to fresh air.

### After contact with skin

Wash off immediately with plenty of water.

#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water.

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

irritant effects

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





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Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

#### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### 6.4. Reference to other sections

13. Disposal considerations

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

### Advice on safe handling

Use only in well-ventilated areas.

### Advice on protection against fire and explosion

See also section 5

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

### Requirements for storage rooms and vessels

Keep in a dry, cool place.

### Hints on joint storage

None known.

#### 7.3. Specific end use(s)

Reagent for analysis

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

# 8.1. Control parameters

#### Additional advice on limit values

None known.

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.





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#### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

#### Eve/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0.20 mm, Breakthrough time: > 30 min

#### Skin protection

Remove and wash contaminated clothing before re-use.

#### Respiratory protection

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

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

### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

pH-Value (at 20 °C): 6,5

#### Changes in the physical state

Melting point: 1 °C
Initial boiling point and boiling range: 98 °C
Sublimation point: not applicable
Softening point: not applicable
Pour point: not applicable
: no data available
Flash point: not applicable
Sustaining combustion: No data available

**Flammability** 

Solid: not applicable
Gas: not applicable

### **Explosive properties**

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

not applicable

not applicable

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable
Decomposition temperature: no data available

**Oxidizing properties** 

not applicable

Vapour pressure:

Vapour pressure:

no data available

no data available



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Density (at 20 °C): 1 g/cm³
Bulk density: not applicable
Water solubility: soluble

Solubility in other solvents

no data available

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available no data available Vapour density: no data available Evaporation rate: no data available Solvent separation test: Solvent content: no data available

9.2. Other information

Solid content: not applicable

no data available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

See also section 10.3

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

## 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

### **Further information**

None known.

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### **Acute toxicity**

No data is available on the product itself.





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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
9036-19-5	Triton X-114					
	oral	LD50 1700 mg/kg	0	rat		
57-09-0	Cetyltrimethylammonium Bromide					
	oral	LD50 410 mg/kg		rat		

### Irritation and corrosivity

May cause eye irritation.

#### Sensitising effects

Contains no substance or substances classified as sensitising.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Aspiration hazard**

No aspiration toxicity classification

### Specific effects in experiment on an animal

No data is available on the product itself.

### Additional information on tests

no data available

# **Practical experience**

#### Observations relevant to classification

no data available

# Other observations

no data available

#### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
9036-19-5	Triton X-114							
	Acute fish toxicity	LC50 mg/l	4-8,9		Pimephales promelas (fathead minnow)			
	Acute crustacea toxicity	EC50 mg/l	18-26	48 h	Daphnia magna (Water flea)			
	Fish toxicity	NOEC mg/l	0,004		Oncorhynchus mykiss (rainbow trout)	EPA		
57-09-0	Cetyltrimethylammonium Bromide							
	Acute fish toxicity	LC50	0,3 mg/l	96 h	Danio rerio (zebra fish)			
	Acute algae toxicity	ErC50 mg/l	0,06	96 h				
	Acute crustacea toxicity	EC50 mg/l	0,03	48 h	Daphnia magna (Water flea)			

#### 12.2. Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation			-	
9036-19-5	Triton X-114				
	OECD Test Guideline 301 C	22%	28		

### 12.3. Bioaccumulative potential

No data is available on the product itself.

#### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

# 12.6. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

no data available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

In accordance with local and national regulations.

#### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

### List of Wastes Code - contaminated packaging



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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

#### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

#### Other applicable information (land transport)

Not subject to transport regulations.

#### Inland waterways transport (ADN)

#### Other applicable information (inland waterways transport)

Not tested

### Marine transport (IMDG)

### Other applicable information (marine transport)

Not subject to transport regulations.

#### Air transport (ICAO-TI/IATA-DGR)

### Other applicable information (air transport)

Not subject to transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Triton X-114

### 14.6. Special precautions for user

no data available

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

not applicable

#### Other applicable information

no data available

# **SECTION 15: Regulatory information**

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

#### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

#### Changes

Revision: 16.11.2017

Safety datasheet sections which have been updated: 2, 12, 14

Revision: 8.07.2015

Safety datasheet sections which have been updated: 2, 4, 11



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### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 1; H410	Calculation method

# Relevant H and EUH statements (number and full text)

H302	namiui ii Swalloweu.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
11440	AZ ( ) ( ) ( ) () () () () () ()

H410 Very toxic to aquatic life with long lasting effects.

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)