

Safety Data Sheet

Issuing date no data available

Revision Date 13-Jul-2015

Version 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Code(s) AB120386

Product name Sodium orthovanadate

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

Recommended use For research use only

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier

Abcam plc
330 Cambridge Science Park
Cambridge
CB4 0FL
UK
Tel: +44 (0)1223 696000
Fax: +44 (0)1223 215215

For further information, please contact: technical@abcam.com

1.4 Emergency telephone number

Emergency telephone - Tel: +44 (0)1223 696000 (08.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS / CLP - REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute inhalation toxicity - dust/mist	Category 4

2.2 Label elements

**Signal Word**

Warning

Hazard statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)

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

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P280 - Wear protective gloves/ eye protection/ face protection

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant

P363 - Wash contaminated clothing before reuse

2.3 Other information

Caution - substance not yet tested completely

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Sodium orthovanadate (for Decavanadate solution)	-	13721-39-6	100	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures**General advice**

If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Ingestion Rinse mouth. If symptoms persist, call a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Special hazard

Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid dust formation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

7.3 Specific end uses

Specific use(s) No information available.
Exposure scenario No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits National occupational exposure limits

Derived No Effect Level No information available

Predicted No Effect Concentration No information available

8.2 Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection Safety glasses with side-shields.
Hand protection Protective gloves.
Skin and body protection Long sleeved clothing.
Respiratory protection No special protective equipment required.
Thermal hazards No information available

Hygiene measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

Environmental exposure controls Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State @20°C	Solid	Appearance	Off-white
Odor	No information available		

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH	No information available	
Melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit		
lower flammability limit		
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	

Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Explosive properties	No information available

9.2 Other information

VOC Content(%)	No information available
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10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Precautionary Statements

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products

Sodium oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Product Information Harmful by inhalation, in contact with skin and if swallowed.

Inhalation Harmful by inhalation.

Eye contact There is no data available for this product.

Skin contact Harmful in contact with skin.

Ingestion Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium orthovanadate (for Decavanadate solution)	330mg/kg (rat)		

Chronic toxicity

Corrosivity No information available.

Sensitization	No information available.
Neurological effects	No information available.
Reproductive toxicity	No information available.
Mutagenic effects	No information available.
Target Organ Effects	No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects As supplied, the preparation is not expected to present significant adverse environmental effects.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

<u>ADR</u>	Not dangerous goods
<u>IATA</u>	Not dangerous goods
<u>DOT</u>	Not dangerous goods

15. REGULATORY INFORMATION

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

No information available.

15.2 Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

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Hazard statements

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Revision Date 13-Jul-2015

Revision Note not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS