

Valid from: 20.04.2006

1 Identification of the substance/preparation and of the company/undertaking

Product name: FORMALDEHYDE CATALYST

· Application of the substance / the preparation Catalysts

Manufacturer/Supplier:
Perstorp Specialty Chemicals AB SE-284 80 Perstorp, Sweden Tel. +46 435 38000
Fax +46 435 37067

polyolinfo@perstorp.com www.perstorp.com

Further information obtainable from: EHS-department Perstorp Specialty Chemicals AB

Information in case of emergency: (Int.) +46 8 337043 (Emergency Response Center, Sweden)

Chemical compone	nts:		
CAS: 13769-81-8 EINECS: 237-389-3	Ferric molybdate		65-80%
CAS: 1313-27-5 EINECS: 215-204-7	molybdenum trioxide	Xn; R 36/37-48/20/22	20-35%

3 Hazards identification

· Hazard description:



Xn Harmful

· Information concerning particular hazards for human and environment:

R 36/37 Irritating to eyes and respiratory system.

R 48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye under running water.
- · After swallowing:

Rinse out mouth and then drink plenty of water or milk.

If you feel unwell consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: Respiratory protective device.

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6 Accidental release measures

- · Person-related safety precautions:
- Ensure adequate ventilation
- Avoid formation of dust.
- Measures for cleaning/collecting: Pick up mechanically.

7 Handling and storage

- · Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Protect against electrostatic charges.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:

1313-27-5 molybdenum trioxide

WEL | Short-term value: 20 mg/m³ Long-term value: 10 mg/m³

- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:



Protective gloves

Material of gloves

Plastic gloves

Strong material gloves

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety glasses

9 Physical and chemical properties

· General Information

Form:

Pellets

Colour: Odour:

Light green Odourless

Change in condition

Melting point/Melting range:

> 600°C

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Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20°C:	650-900 kg/m³
Solubility in / Miscibility with water at 20°C: alcohols:	0.2 % w/w 0.33 % w/w ethanol (25 °C) 0.08 % w/w n-butanol (25 °C)
pH-value (60 g/l) at 20°C:	4-7

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.

11 Toxicological information

- Acute toxicity:
- - Inhalative LC50 > 5.84 mg/l (rat)

 Primary irritant effect:
 - · on the skin: No irritating effect.
 - on the eye: Irritating effect.
 - Sensitization: No sensitizing effects known.
 - · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- Information about elimination (persistence and degradability):
- Other information: Not available.
- · Ecotoxicological effects:

Aquatic to 1313-27-5	molybdenum trioxide	
	820 mg/l (bacteria)	
	150 mg/l (daphnia)	
	>100 mg/l (alga)	
	130 mg/l (fish)	

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General notes:

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According to the criteria of the EU-classification and labelling "dangerous for environment" (93/21/ EWG) the substance/ the product has to be classified as non-hazardous for the environment.

13 Disposal considerations

- European waste catalogue
- 16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 16 08 00 spent catalysts
- 16 08 02 spent catalysts containing dangerous transition metals (3) or dangerous transition
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class:
- Maritime transport IMDG:
- IMDG Class:
- · Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- · Transport/Additional information: Not dangerous goods according to the above specifications.

15 Regulatory information

- · Labelling according to EU guidelines:
- Observe the general safety regulations when handling chemicals.
- · Symbol and hazard designation of product:



Xn Harmful

- Hazard-determining components of labelling: molybdenum trioxide
- Risk phrases:
- Irritating to eyes and respiratory system.
- 48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- · Safety phrases:
- 22 Do not breathe dust.
- 25 Avoid contact with eyes.
- 60 This material and its container must be disposed of as hazardous waste.

16 Other information

Molybdenum trioxide (CAS 1313-27-5) is currently a subject for reclassification within the EU. This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

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Explanation R-phrases
36/37 Irritating to eyes and respiratory system.
48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

· Department issuing SDS: EHSQ-department, Perstorp Specialty Chemicals AB.