



Revision date 08/11/201
1 Identification
Product identifier Product name: 12-Molybdophosphoric acid hydrate
Stock number: 56166 CAS Number: 51429-74-4
5/429-74-4 EC number: 234-713-5
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com Information Department: Health, Safety and Environmental Department
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS03 Flame over circle
Ox. Sol. 2 H272 May intensify fire; oxidizer.
GHS05 Corrosion
Skin Corr. 1C H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS03 GHS05
Signal word Danger Hazard statements H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage. Precautionary statements P201
Precautionary statements P221 Take any precaution to avoid mixing with combustibles. 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P604-P313 IF exposed or concerned: Get medical advice/attention.
Pour Dispose of contents/container in accordance with local/regional/international regulations.
WHMIS classification C - Oxidizing materials D2B - Toxic material causing other toxic effects E - Corrosive material
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
Health B Health (acute effects) = 3 FRE D Flammability = 0 REACTIVITY 2 Physical Hazard = 2
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description: 51429.74.412-Molybdophosphoric acid hydrate
51429-74-4 12-Molybdophosphoric acid hydrate Identification number(s): EC number: 234-713-5
4 First-aid measures
Description of first aid measures General information Immediately remove any clothing soiled by the product.
(Contd. on page

(Contd. on page 2) USA

Safety Data Sheet acc. to OSHA HCS

Product name: 12-Molybdophosphoric acid hydrate (Contd. of page 1) After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. Seek immediate medical advice. **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor. **After swallowing** Seek medical treatment. **Information for doctor Most important symptoms and effects, both acute and delayed** Causes series series eye damage. **Judication of any immediate modical effection and events** Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective of For safety reasons unsuitable extinguishing agents Halocarbon extinguisher Special hazards arising from the substance or mixture This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. If this product is involved in a fire, the following can be released: Phosphorus oxides Molybdenum oxides Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation **Prevention of secondary hazards:** Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Substance/product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from flammable substances. Store away from reducing agents. Do not store with organic materials. Store away from metal powders. Store away from metal powders. Store away from storag bases. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. Conditions for safe storage, including any incompatibilities

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.

Product name: 12-Molybdophosphoric acid hydrate

	ic acid hydrate				
(Contd. of page 2) Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Tightly sealed goggles Full face protection: Body protection: Protection: Check protection: Protection is protection in the protection in the material of gloves and the protection in the material of gloves in the material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Full face protection: Body protection: Protective work clothing.					
9 Physical and chemical properties					
Information on basic physical and cher General Information Appearance: Form: Odor:	mical properties Granules Odorless Not determined.				
	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	78-90 °C (172-194 °F) Not determined Not determined Contact with combustible material may cause fire. Not determined Not determined Not determined.				
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined. Not determined Not applicable. 3.15 g/cm² (26.287 lbs/gal) Not determined. Not applicable. Not applicable. Soluble Not determined. Not determined.				
kìnematic: I Other information	Not applicable. No further relevant information available.				
10 Stability and reactivity Reactivity May intensify fire; oxidizer. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Reacts with reducing agents Reacts with frequency agents Conditions to avoid No further relevant information available. Incompatible materials: Flammable substances Reducing agents Bases Oxidizing agents Water/moisture Organic materials Metal powders Hazardous decomposition products: Phosphorus oxides (e.g. P205) Metal oxide fume Molybdenum oxides					
LD/LC50 values that are relevant for cla Skin irritation or corrosion: Causes serv Eye irritation or corrosion: Causes serv Sensitization: No sensitizing effects know Germ cell mutagenicity: No effects known Carcinogenicity: No effects known Specific target organ system toxicity - I Specific target organ system toxicity - I	vere skin burns. ious eye damage. wn. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. repeated exposure: No effects known.	(Contd. on page 4)			

Product name: 12-Molybdophosphoric acid hydrate

(Contd. of page 3)

Status Table type Table type Table type Parsistance and degradability to butther relevant information available. Table type Resource type Table type Construct Table type Denotation Table type Construct Table type Denotation Table type Construct Table type Denotation Table type <		((Contd. of page 3)		
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Waste treatment methods Recommendation Consult state, local or national regulations, its recommendation Consult is recommended in the Consult of the consult state, local or national regulations, its recommendation consult is recommended in the USC PROFESSION CONFIGURATION CONFIGURATIO	Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governm Do not allow material to be released to the environment without proper governm Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	mental permits. [.] course or sewage system.			
Waste treatment methods Recommendation Consult state, local or national regulations, its recommendation Consult is recommended in the Consult of the consult state, local or national regulations, its recommendation consult is recommended in the USC PROFESSION CONFIGURATION CONFIGURATIO	13 Disposal considerations				
UN-Number DOT, IMDG, IATA UN3085 Ub proper shipping name DOT, IMDG, IATA Oxidizing solid, corresive, n.o.s. (12-Molybdophosphoric acid) Transport hazard class(es) Oxidizing solid, corresive, n.o.s. (12-Molybdophosphoric acid) DOT Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Transport hazard class(es) Solid corresive, n.o.s. (12-Molybdophosphoric acid) DOT Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Solid corresive, n.o.s. (12-Molybdophosphoric acid) DOT Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Solid corresive, n.o.s. (12-Molybdophosphoric acid) Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid) Solid corresive, n.o.s. (12-Molybdophosphoric acid) Image: Solid corresive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8) Solid corresive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III Environmental hazards: Not applicable. Solid corresive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III DOT, IMDG, Information: Not applicable. Solid corresive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III UN Model Regulation ': UN3085, Oxidizing solid, corresive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III If Regulatory infor	Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
DOT, IMDG, IATA UN3055 UM proper shipping name DC, IATA Oxidizing solid, corresive, n.o.s. (12-Molybdophosphoric acid) (MIDG, IATA Transport hazard class(es) DOT Image: Class 5.1 Quidising substances. Class 5.1 Quidising substances. Image: Class 5.1 Patients Dot Wange: Class Image: Class 1.1 Quidising substances. Image: Class Not applicable. Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable. Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable. Transport Additional information: QU3025. Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8	14 Transport information				
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DOT W W W Class 5.1+8 Label 5.1+8 Class 5.1+6 Class 5.1+8 V W V W Elass 5.1+8 String group 5.1+8 Pocking group 5.1+8 Pocking group 1.1 Environmental hazards: Not applicable. Special precautions for user Warning: Oxidizing substances Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable. Transport dividitional information: DoT Model Regulation*: UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III UN "Model Regulation*: UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III UN "Model Regulation*: UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III UN "Model Regulation*: UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III UN "Model Regulation*: UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III Signal word Danger Maxime product is classified and laboled in accordance with 29 CFR 1910 (OSHA HCS)	DOT	Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid) OXIDIZING SOLID, CORROSIVE, N.O.S. (12-Molybdophosphoric ac	cid)		
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Marine Pollutant (DOT): No UN "Model Regulation": UN3085, Oxidizing solid, corrosive, n.o.s. (12-Molybdophosphoric acid), 5.1 (8), III 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Image: Comparison of the substance or mixture or substance or mixture of the substance or mixture or substance or mixtu		le Not applicable.			
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	All components of this product are listed on the Canadian Domestic Substance SARA Section 313 (specific toxic chemical listings) Substance is not listed.		Contd. on page 5) USA —		

Product name: 12-Molybdophosphoric acid hydrate

(Contd. of page 4)

USA

California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/12/2016 / - Abbreviations and accomyse: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IA1A: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hozardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPNB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Protection Agency (USA) CX. Sol. 2: Oxidising Solids, Hazard Category 1 Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1