

Safety Data Sheet per OSHA HazCom 2012

1	Identification
	Product identifier Product name: Sodium dihydrogen phosphate dihydrate
	Stock number: A11316, L15016
	CAS Number: 13472-35-0
	EC number: 231-449-2
	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:
	Manuacture (Supple). 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) The substance is not classified according to the Globally Harmonized System (GHS).
	Hazards not otherwise classified No information known.
	GHS label elements Not applicable Hazard pictograms Not applicable
	Signal word Not applicable Hazard statements Not applicable
	WHMIS classification Not'controlled Classification system
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
	HEALTH I Health (acute effects) = 1 FIRE I Flammability = 0
	REACTIVITY] Physical Házard = 1
	Other hazards Results of PBT and vPvB assessment
	PBT: Not applicable. vPvB: Not applicable.
3	Composition/information on ingredients
	Chemical characterization: Substances CAS# Description:
	13472-35-0 Sodium dihydrogen phosphate dihydrate Identification number(s):
	EC number: 231-449-2
4	First-aid measures
	Description of first aid measures 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 immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
	After swallowing Seek medical tréatment. Information for doctor
	Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.
5	Fire-fighting measures
	Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.
	Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:
	Sodium oxide Phosphorus oxides
	Advice for firefighters Protective equipment:
	Wear self-contained respirator. Wear fully protective impervious suit.
6	Accidental release measures
2	Personal precautions, protective equipment and emergency procedures
	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course.
	Methods and material for containment and cleaning up: Pick up mechanically. (Contd. on page 2)
	USAUSA

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Prevention of secondary hazards: No special measures required. **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. Information about protection against explosions and fires: The product is not flammable 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 water/moisture. Store away from watermidisture. Store away from oxidizing agents. **Further information about storage conditions:** Store under dry inert gas. This product is hygroscopic. 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.

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.

Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (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 Material of gloves Nitrile rubber, NBR

Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm

Eye protection: Safety glasses Body protection: Protective work clothing.

9 Physical and chemical properties

3 Filysical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Crystalline White Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined 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: kinematic:	Not determined. Not determined Not applicable. 1.91 g/cm³ (15.939 lbs/gal) Not determined. Not applicable. Not applicable. Soluble Not determined. Not applicable. Not applicable.	

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Product name: Sodium dihydrogen phosphate		
Other information No further rele	evant information available.	(Contd. of page
0 Stability and reactivity		
 O Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage Thermal decomposition / conditions to be avoided: Possibility of hazardous reactions Reacts with strong Conditions to avoid No further relevant information av Incompatible materials: Water/moisture Oxidizing agents Hazardous decomposition products: Sodium oxide Phosphorus oxides (e.g. P205) 	Decomposition will not occur if used and stored according to specifications.	
LD/LC50 values that are relevant for classification: I Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogeni Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exp Specific target organ system toxicity - single expos Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	c properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. osure: No effects known.	
2 Ecological information		
Toxicity Aquatic toxicity: No further relevant information availa Persistence and degradability No further relevant info Bioaccumulative potential No further relevant informat Mobility in soil No further relevant information available Additional ecological information: General notes: Do not allow undiluted product or large quantities to rea Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information a	rmation available. tion available. e. ich ground water, water course or sewage system.	
3 Disposal considerations Waste treatment methods		
Recommendation Consult state, local or national regu Uncleaned packagings: Recommendation: Disposal must be made according Recommended cleansing agent: Water, if necessary	to official regulations.	
4 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)	The approace	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL	73/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
5 Regulatory information Safety, health and environmental regulations/legisla GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations	ation specific for the substance or mixture	
All components of this product are listed in the U.S. Env All components of this product are listed on the Canadia SARA Section 313 (specific toxic chemical listings)	vironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. an Domestic Substances List (DSL). Substance is not listed.	
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Product name: Sodium dihydrogen phosphate dihydrate

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USA

California Proposition 65

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. 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 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MAC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)