

Iron(III) sulfate n-hydrate

Hayashi Pure Chemical Ind.,Ltd. Revision date: 4/1/2024

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SDS code: E6-16

Version: 06

Safety Data Sheet

1. Chemical product and company identification

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Product name	:	Iron(III) sulfate n-hydrate
SDS code	:	E6-16
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.jj	ma oc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible
	Flammable gases	No classification
	Aerosol	classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	classification not possible
	Self-reactive substances and mixtures	classification not possible
	Pyrophoric liquids	No classification
	Pyrophoric solids	classification not possible
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	classification not possible
	Oxidizing liquids	No classification
	Oxidizing solids	classification not possible
	Organic peroxides	classification not possible
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	classification not possible
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye irritation	classification not possible
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	classification not possible

	Specific target organ toxicity (repeated exposure)	classification not possible
	Aspiration hazard	classification not possible
Environmental hazards	Hazardous to the aquatic environment, short-term (acute)	classification not possible
	Hazardous to the aquatic environment, long-term (chronic)	classification not possible
	Hazardous to the ozone layer	classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture
Synonyms

SubstanceFerric sulfate, Iron sulfate(2:3)

Name	Concentration or	Formula	Kanpo I	CAS RN		
Concentration range		i ornidia	CSCL no	ISHL no		
Iron(III) sulfate n-hydrate	60-80% (as anhydrous)	Fe2(SO4)3 • nH2O	(1)-359	-	15244-10-7	

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures		
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
		Get immediate medical advice/attention.
First-aid measures after skin	:	Remove/Take off immediately all contaminated clothing.
contact		Gently wash with plenty of soap and water.
		Get immediate medical advice/attention.
First-aid measures after eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Get immediate medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Fire hazard	:	This product is unburnable.
Hazardous decomposition products in case of fire	:	In case of fire, product may produce irritative or toxic fumes/gases.
Firefighting instructions	:	If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.
		In the case of peripheral fire, quickly remove movable containers to safe places.
		If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective	Equ	ipment and Emergency Procedures
General measures	:	Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.
Environmental precautions		
Environmental precautions	:	Avoid release to the environment.
		Prevent entry to sewers and public waters.

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Methods and Equipment for Contain	ment and Cleaning up		
Methods for cleaning up	Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place.		
	Wash out the spilled area with large amounts of water.		
7. Handling and storage			
Handling			
Technical measures	Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.		
	Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.		
Precautions for safe handling	Do not eat, drink or smoke when using this product.		
	Thoroughly wash your hands and gargle after handling.		
	Ensure good ventilation of the work station.		
	Do not contact, breathe or swallow.		
Prevents handling of incompatible : substances or mixtures	Avoid prolonged or repeated exposure.		
Storage			
Storage conditions	Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.		
Material used in packaging/containers	Light shielding airtight container.		
Technical measures	Comply with applicable regulations.		
Storage temperature	Cool and dark place		

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.
Protective equipment	
Respiratory protection	: Dustproof mask
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder ~ Mass
Color	:	paleyellow gray ~ grayish yellow
Odor	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative gas density	:	No data available
Solubility	:	Soluble in water. Insoluble in ethanol.
Partition coefficient n- octanol/water (Log Pow)	:	No data available
Explosive limits (vol %)	:	No data available

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10. Stability and reactivity				
Particle characteristics	:	No data available		
Viscosity, kinematic	:	No data available		

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	Aqueous solution is corrosive.
Conditions to avoid	:	Sunlight, Heat
Incompatible materials	:	No data available
Hazardous decomposition products	:	Sulfur oxides

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Iron(III) sulfate n-hydrate	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Iron(III) sulfate n-hydrate		
Hazardous to Aquatic Environment - Acute Hazard	No data available	
Hazardous to Aquatic Environment - Chronic Hazard	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	

13. Disposal considerations

Ecology - waste materials	:	With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
Contaminated container and packaging	:	Empty the packaging completely prior to disposal. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)	

UN-No. (IMDG) Proper Shipping Name (IMDG)		Not applicable Not applicable
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Packing group (IMDG)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable
Air transport(IATA)	
UN-No. (IATA)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Packing group (IATA)	: Not applicable
Transport hazard class(es) (IATA)	: Not applicable
Marine pollutant	: Not applicable
Regulations in Japan	
Regulatory information by sea	: Not applicable
Regulatory information by air	: Not applicable
Special transport precautions	: When transporting, load containers so that they do not tip over,
	damage, drop or collapse. Make sure there is no leak in containers.
15. Regulatory information	1
National law	
Industrial Safety and Health Law	: Not applicable
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Japanese Poisonous and Deleterious Substances Control Law	: Not applicable
Water Pollution Prevention Law	: Designated Chemical Substances (Law Article 2, Paragraph 4,
	Enforcement Order Article 3-3)
Fire Service Law	: Not applicable
Foreign Exchange and Foreign Trade Control Act	: Export Trade Control Ordinance appendix 1-16
Waterworks Law	: Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
Sewerage Law	: Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	: Not applicable

16. Other information

Data sources

Other information

- Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE).
 2020 Emergency Response Guidebook (ERG 2020).
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