



1 Identification

Product identifier Product name: 2-Imidazolidinone hemihydrate Stock number: A17666 CAS Number: 121325-67-5 EC number: 204-436-4 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 Details of the supplier of the safety da 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 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) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements

 Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 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.

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

 P362
 Take off contaminated clothing and wash before reuse.

 P321
 Specific treatment (see on this label).

 P342+P313
 If skin irritation occurs: Get medical advice/attention.

 P405 P403+P233 Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1 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: 121325-67-5 2-Imidazolidinone hemihydrate Identification number(s): EC number: 204-436-4 USA (Contd. on page 2)

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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 treatment. Information for doctor	
Information for doctor Most important symptoms and effects, both acute and delayed	
Causes skin irritation.	
Causes serious eye irritation. May cause respiratory irritation.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon diovide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foan	2
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foan Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	1.
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) Advice for firefighters	
Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions: Do not allow product to reach sewage system or any water course.	
Methods and material for containment and cleaning up: Ensure adequate ventilation. 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.	
Handling and storage	
Handling Precautions for safe handling	
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: No information known.	
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 oxidizing agents. Further information about storage conditions:	
Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
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.	
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 N05 (USA) or PE (EN 1/3) cartridges as a backup to engineering controls. Risk assessment should be performed to c	letermine if air-
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.	
Eye protection: Safety glasses Body protection: Protective work clothing.	
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Product name: 2-Imidazolidinone hemihydrate

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9 Physical and chemical properties	
Information on basic physical and che	emical properties
General Information	
Appearance: Form:	Crystalline
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	55 °C (131 °F)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.
Ignition temperature: Decomposition temperature:	Not determined
	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Soluble
Partition coefficient (n-octanol/water):	
Viscosity:	
dynamic: kinematic:	Not applicable. Not applicable.
Other information	No further relevant information available.
Incompatible materials: Oxidizing agen Hazardous decomposition products:	information available.
Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	ts
Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides 1 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic Eff LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes ski carcinogenicity: The Registry of Toxic Effects of Chemica No classification data on carcinogenic pr Reproductive toxicity: The Registry of Specific target orran system toxicity.	ts fects of Chemical Substances (RTECS) contains acute toxicity data for this substance. lassification : No data in irritation. ious eye irritation. wn. wn. al Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. repeated exposure: No effects known
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Product name: 2-Imidazolidinone hemihydrate

(Contd. of page 3) 14 Transport information **UN-Number** DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) 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 MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": 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 ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. Causes serious eye irritation H319 H335 May cause respiratory irritation. Precautionary statements P261 P280 Avoid breathing dust/fume/gas/mist/vapours/spray. 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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P362 Take off contaminated clothing and wash before reuse. Specific treatment (see on this label). It skin irritation occurs: Get medical advice/attention. P321 P332+P313 Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 P403+P233 National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. 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. National regulations market and use must be observed. Substance is not lister 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 user Department issuing SDS: Global Marketing Department Date of preparation / last revision 10/26/2016 / -Abbreviations and accoryms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the Americal Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Watage Hazardous Materials Information System (Canada) LCS0: Lethal doncentration, 50 percent UPUB: 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) LRRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Intri: 2 Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 3