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1 Identification	
Product identifier	
Product name: 2,4-Dimethylimidazole	
Stock number: A11949, L10480 CAS Number: 930-62-1 EC number:	
213-221-4 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)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve Dam 1 H318 Causes serious eve 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	
GHS05 Signal word Danger	
Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements	
P260 Do not breathe dusts or mists. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification 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 FIRE D Flammability = 1 REACTIVITY Physical Hazard = 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:	
930-62-1 2,4-Dimethylimidazole Concentration: ≤100%	
Identification number(s): EC number: 213-221-4	
4 First-aid measures	7
Description of first aid measures General information Immediately remove any clothing soiled by the product.	
After inhalation 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	
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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 severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture 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.	
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.	
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. Protective Action Criteria for Chemicals	
PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.	
7 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.	
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. Avoid contact with the eyes and skin. 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 P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	etermine if air-
purifying respirators are appropriate. 'Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves <u>Check protective gloves prior to each use for their proper condition</u> .	
I he selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Tightly sealed goggles	
Fŭll fáce protečtiŏň Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.	
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9 Physical and chemical propertie	!S			
Information on basic physical and chemical properties General Information Appearance:				
Form: Odor: Odor threshold:	Crystalline aggregrates Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	84-88 °C (183-190 °F) 266 °C (511 °F) (733mm) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density:	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined			
Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water	Not determined. Not applicable. Not applicable. Soluble r): Not determined			
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
Reactivity No information known. 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 Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides				
11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes serious eye damage. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known.				
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - somnolence (general depressed activity).				
Behavioral - tremor. Behavioral - convulsions or effect on seizure threshold. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information				
Toxicity 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 Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmer PBT : Not applicable. vPvB : Not applicable. Other adverse effects No further relev	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt			
Other adverse effects No further relev	vant information available.			
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13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulations Recommended cleansing agent: Water, if necessary with cleansing agen		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3263	
UN proper shipping name DOT ADR IMDG, IATA	Corrosive solid, basic, organic, n.o.s. (2,4-Dimethylimidazole) 3263 Corrosive solid, basic, organic, n.o.s. (2,4-Dimethylimidazole) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (2,4-Dimethylimidazole)	
Transport hazard class(es)		
DOT		
Class Label ADR	8 Corrosive substances 8	
Class Label IMDG, IATA	8 (C8) Corrosive substances 8	
	8 Corrosive substances	
Label	8	
Packing group DOT, ADR, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances F-A,S-B Alkalis A SG35 Stow "separated from" acids.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC (Code Not applicable.	
Transport/Additional information: DOT Quantity limitations	On passenger aircraft/rail: 25 kg	
Marine Pollutant (DOT):	On cargo aircraft only: 100 kg No	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g	
UN "Model Regulation":	UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (2,4- DIMETHYLIMIDAZOLE), 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		

GHS05

 GHSU5

 Signal word Danger Hazard statements

 H314 Causes severe skin burns and eye damage.

 Precautionary statements

 P260

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 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vormiting.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 National regulations
 Mational regulations.

 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (DSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.
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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. Substance is not listed.

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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Information to ensure with this 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/Revision: Print date, revision date and version number are in the header of each page.
 Abbreviations and acronyms:
 RiD: Reglement international concernant le transport des marchandiese dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) CRAO: International Civil Aviation Organisation" (CAO)
 ADR: Accord européen sur le transport des marchandiese dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: International Minime Code for Dangerous Goods
 DOT: US Department of Transport association
 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Oservice (USA)
 WHMIS: Workplace Hazardous Materials Information System (USA)
 VPUE very Persistent and very Bioaccumulative PVUE very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) (SHA: Occupational Safety and Health Administration (USA)
 MFP: National Toxicology Program (USA)
 MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)
 Skin corrosion/initiation – Category 1

USA