



1 Identification	
Product identifier	
Product name: 2,2'-Bipyrimidine	
Stock number: L01190 CAS Number:	
34671-83-5	
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	
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
	0700.
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. 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	
\wedge	
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
Precautionary statements 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 rinsin	ıg.
P362 Take off contaminated clothing. P321 Specific treatment (see on this label). P322 P321 D32 P321 P321 P321 P321 P321 P321 P321 P3	
P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.	
WHMIS classification D2B - Toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH \blacksquare Health (acute effects) = 1	
FRE Flammability = 1 REACTIVITY1 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:	
CAS# Description: 34671-83-5 2,2'-Bipyrimidine	
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 immediate medical advice.	l
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 No further relevant information available.	
	(Contd. on page 2)
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Product name: 2,2'-Bipyrimidine (Contd. of page 1) Indication of any immediate medical attention and special treatment needed No further relevant information available. 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 (CO) 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: Pick up mechanically. **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 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: No information known. 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: Not required. Additional information: No data Exposure controls 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 solled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avaid context with the owner and difference of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Pale orange to brown Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 110-116 °C (230-241 °F) Not determined Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Not determined

 Auto igniting:
 Not determined.

 Danger of explosion:
 Product does not present an explosion hazard.

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Page 3/4 Printing date 11/24/2015 Reviewed on 02/25/2014

Product name: 2,2'-Bipyrimidine		
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Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information 10 Stability and reactivity	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
Reactivity No information known	nended storage conditions. 5 be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. repeated exposure: No effects known. single exposure: No effects known.	
	elevant information available. nation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class Packing group	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
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DOT Marine Pollutant (DOT):	No
Regulatory information	
	ons/legislation specific for the substance or mixture ad and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P362 Take off contaminated clo P321 Specific treatment (see or P332+P313 If skin irritation occurs: Ge	et medical advice/attention.
National regulations This product is not listed in the U.S. Environn to research and development only. This prod product must not be used for commercial pur SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause canc Prop 65 - Developmental toxicity Substance	cer Substance is not listed.
The conditions of restrictions according to market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (req	Substance is not listed. bestance is not listed. se only by technically qualified individuals. tive regulations according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t quiring Authorisation for use) Substance is not listed. Safety Assessment has not been carried out.
information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this t the health and safety of employees. This information is furnished without warranty, and any use of the product not i Sheet, or in combination with any other product or process, is the responsibility of the user.
Conformatice with time indication solvery Data S Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/20 Abbreviational Maritime Code for Dangerous Goods DDT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syste LD50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPWE very Persistent and Very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	g Department 015 / -