

Safety Data Sheet acc. to OSHA HCS

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1 Identification Product identifier Product name: 2,3,6-Trimethylquinoxaline
Stock number: B21432 CAS Number:
17635-21-1 EC number: 241-618-2 Relevant identified uses of the substance or mixture and uses advised against.
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 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)
GHS07
Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2A H319 Causes serious eve 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. H319 Causes serious eye irritation. H319 Causes serious eye irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P260 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. P302 Take off contaminated clothing and wash before reuse. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P403 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification Dispose of contents/container in accordance with local/regional/national/international regulations. D2B - Toxic material causing other toxic effects Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH II HEALTH II HEALTH II FIRE II FIRE II
Reservery I 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: 17635-21-1 2,3,6-Trimethylquinoxaline Concentration: ≤100%
Identification number(s): EC number: 241-618-2
- OSA - (Contd on page 2)

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4 First-aid measures	
Description of first aid measures After inhalation Supply frequencing a provide entificial respiration. Keep patient warm	
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.	
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 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.	
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 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	
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: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed.	
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 eves 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 N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dea purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:	termine if air-
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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9 Physical and chemical properties				
Information on basic physical and che General Information	emical properties			
Appearance:				
Form: Odor:	Powder Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	91-94 °C (196-201 °F) Not determined			
Sublimation temperature / start:	Not determined			
Flammability (solid, gaseous)	Not determined. Not determined			
Ignition temperature: Decomposition temperature:	Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined			
Upper: Vapor prossuro:	Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water):	Not determined : Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			
0 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable Under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re- Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents t information available. nts			
1 Toxicological information Information on toxicological effects Acute toxicity: No effects known.				
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes ser	in irritation			
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	own.			
Germ cell mutagenicity: No 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. single exposure: May cause respiratory irritation. 			
Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
Carcinogenic categories				
	Ith Administration) Substance is not listed.			
2 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor	ner relevant information available. elevant information available.			
Additional ecological information: General notes: Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment	quantities to reach ground water, water course or sewage system. t			
PBT: Not applicable.				
vPvB: Not applicable. Other adverse effects No further releva	ant information available.			
3 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.			
Recommendation: Disposal must be ma	ade according to official regulations.			
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Product name: 2,3,6-Trimethylquinoxaline

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14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name	
DOT, ADN, IMDG, ĬATA Transport hazard class(es)	Not applicable
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 Transport/Additional information:	a the IBC Code Not applicable.
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information	
Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in acc Hazard pictograms	ccific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
P304+P340 IF INHALED: Remove victim to fresh air and h P362 Take off contaminated clothing and wash before P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/att P403+P233 Store locked up. P403+P233 Store locked up. P403+P233 Store in a well-ventilated place. Keep container P501 Dispose of contents/container in accordance v National regulations All components of this product are listed on the Canadian Domes SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed Information about limitation of use: For use only by technically Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisatic Chemical Safety Assessment: A Chemical Safety Assessment I	e protection/face protection. everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. keep at rest in a position comfortable for breathing. ore reuse. tention. er tightly closed. with local/regional/national/international regulations. tal Protection Agency Toxic Substances Control Act Chemical substance Inventory. stic Substances List (DSL). se is not listed. t listed. ed. t listed. ed. g qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. mex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
conformance with this Safety Data Sheet, or in combination with	ther information gathered by them, and should make independent judgement of suitability of this ty of employees. This information is furnished without warranty, and any use of the product not in any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 01/20/2017 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (Eu DOT: US Department of Transport des marchandises dangereuses par Route (Eu DOT: US Department of Transport des marchandises dangereuses par Route (Eu 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 Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent UD50: Lethal dose, 50 percent VPVB: 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) INTP: National Toxicology Program (USA) MARC: International Agency (USA) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eve Irit. 2: Skin corrosion/irritation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	uropean Agreement concerning the International Carriage of Dangerous Goods by Road)