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Reviewed on 01/1s	9/2010
1 Identification	
Product identifier Product name: 1,4-Diacryloylpiperazine	
Stock number: J66421	
CAS Number: 6342-17-2	
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. 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	
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GHS07	
Signal word Warning	
Hazard statements H315 Çauses skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation. <b>Precautionary statements</b> P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P201 Wear protecting dashare gasmas and the protection of the protection of the protection. P280 Wear protecting 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.	
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	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY 1 Physical Házard = 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:	
6342-17-2 1,4-Diacryloylpiperazine	
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. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical tréatment. (Contd. on p	page 2)
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	Re	viewed on 01/19/2016
Product name: 1,4-Diacryloylpip	perazine	
Information for doctor Most important symptoms and e Indication of any immediate med	effects, both acute and delayed No further relevant information available. dical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents C Special hazards arising from the If this product is involved in a fire, Carbon monoxide and carbon diox Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious set	<i>dae</i>	ım.
Wear protective equipment. Keep Ensure adequate ventilation Environmental precautions: Do	e equipment and emergency procedures unprotected persons away. not allow product to reach sewage system or any water course. nment and cleaning up: Ensure adequate ventilation. s: No special measures required. afe handling	
Conditions for safe storage, incl Storage Requirements to be met by store	kplace. ainst explosions and fires: No information known. luding any incompatibilities erooms and receptacles: No special requirements. e common storage facility: Store away from oxidizing agents. ge conditions: Il sealed containers.	
8 Exposure controls/personal Additional information about de Properly operating chemical fume	•	
Control parameters Components with limit values th The product does not contain any Additional information: No data	<b>nat require monitoring at the workplace:</b> relevant quantities of materials with critical values that have to be monitored at the workplace.	
Remove all soiled and contaminate Wash hands before breaks and at Avoid contact with the eves and sh	s for handling chemicals should be followed. ages and feed. ed clothing immediately. the end of work. sin	
Recommended filter device for s Use a respirator with type N95 (US purifying respirators are appropriat Protection of hands: Impervious gloves Check protective gloves prior to ea The selection of suitable gloves no	SA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to te. Only use equipment tested and approved under appropriate government standards. ach use for their proper condition.	determine if air-
Material of gloves Nitrile rubber, I Penetration time of glove materi Glove thickness 0.11 mm Eye protection: Safety glasses Body protection: Protective work	ial (in minutes) 480	
9 Physical and chemical prop	~	
Information on basic physical ai General Information		
Appearance: Form:	Powder	
Color: Odor: Odor threshold:	White to off-white Not determined Not determined.	
pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range:	91-95 ℃ (196-203 °F)	
Boiling point/Boiling range:	Not determined	(Contd. on page 3)
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Product name: 1,4-Diacryloylpiperazine				
		(Contd. of page 2)		
Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.			
Auto Ignining. Danger of explosion: Explosion limits: Lower: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: other information	Not determined. Not determined Not determined Not determined Not determined. Not determined. Not applicable. Not applicable. Not determined			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recoming Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age: Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	<b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents it information available.			
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: Carcinogenic categories	kin irritation. rious eye irritation. iown. own. o on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevation	her relevant information available. relevant information available. rmation available. quantities to reach ground water, water course or sewage system. <b>It</b>			
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.			
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.	(Contd. on page 4)		
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roduct name: 1,4-Diacryloylpiperazine	
	(Contd. of page
Special precautions for user	Not applicable.
	MARPOL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Ballutant (DOT):	No
Marine Pollutant (DOT): UN "Model Regulation":	
UN MODEL Regulation :	
	ns/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H325 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/ P280 Wear protective gloves/frue P280 Exposed for the Exposed for the exposure P280 Exposed for the exp	ofective clothing/eve protection/face protection
P304+P340       IF INHALED: Remove victi         P405       Store locked up.         P501       Dispose of contents/contai.         National regulations       This product is not listed in the U.S. Environm to research and development only. This product must not be used for commercial purp         This product is not listed on the Canadian Dor       SARA Section 313 (specific toxic chemical California Proposition 65         Prop 65 - Chemicals known to cause cancer       Prop 65 - Developmental toxicity, female Su         Prop 65 - Developmental toxicity, male Sub Information about limitation of use: For uses       Other regulations, limitations and prohibiti         Substance of Very High Concern (SVHC) at The conditions of restrictions according to market and use must be observed.       Substance is not listed.	er Substance is not listed. e is not listed. ubstance is not listed. e only by technically qualified individuals.
6 Other information Employers should use this information only as	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in heet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing I Date of preparation / last revision 01/20/207 Abbreviations and acronyms:	Department 16 / - angereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Chemical Society) n (Canada)