Safety Data Sheet



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1 Identification	
Product identifier Product name: LY 294002	
Stock number: J67289	
CAS Number: 154447-36-6	
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:	l
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) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable	
Hazard statements Not applicable WHMIS classification Not controlled	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY I Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable	
vPvB: Not applicable.	
3 Composition/information on ingredients	l
Chemical characterization: Substances CAS# Description: 154447.26.6.2.(d.morrholinyl) & phonyl 4H 1 honzopyron 4 opp	l
154447-36-6 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one	
4 First-aid measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice	
After eve contact Rinse opened eve 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.	
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 dióxide Nitrogen oxides (NOx) Adviso for firefishter	
Advice for firefighters Protective equipment: Wear sole contrained respirator	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	<u> </u>
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: 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 8 for information on personal protection equipment. (Contd. on	n page 2)
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See Section 13 for disposal information.		(Contd. of page 1)	
7 Handling and storage			
Handling	antainar tishtu agalad		
Precautions for safe handling Keep co Information about protection against	explosions and fires: No information known.		
Conditions for safe storage, including Storage	any incompatibilities		
	ns and receptacles: Store in freezer (-20 °C). mon storage facility:		
Store away from oxidizing agents.	nditions. Kaap southing wighthy assold		
Store away from oxidizing agents. Further information about storage co Specific end use(s) No further relevant	information available.		
8 Exposure controls/personal prote	ection		
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 red The product does not contain any releva Additional information: No data	nt quantities of materials with critical values that have to be monitored at the workplace		
Exposure controls Personal protective equipment			
Personal protective equipment General protective and hygienic measures The usual presentienent measures for handling chemicals should be followed			
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 el	nd of work.		
Maintain an ergonomically appropriate w Breathing equipment: Use suitable res	rorking environment. pirator when high concentrations are present.		
Recommended filter device for short	term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should i	be performed to determine if air-	
purifying respirators are appropriate. Or Protection of hands:	ly use equipment tested and approved under appropriate government standards.		
Impervious aloves			
Check protective gloves prior to each us The selection of suitable gloves not only	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to ma	anufacturer.	
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in	minutes) 480		
Penetration time of glove material (in Glove thickness 0.11 mm			
Eye protection: Safety glasses Body protection: Protective work clothi	ng.		
9 Physical and chemical properties			
Information on basic physical and ch General Information	emical properties		
Appearance: Form:	Solid		
Odor:	Not determined		
Odor threshold: pH-value:	Not determined. Not applicable.		
Change in condition			
Melting point/Melting range:	Not determined		
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined		
Auto igniting: Danger of explosion:	Not determined. Not determined.		
Explosion limits:			
Lower: Upper:	Not determined 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: Partition coefficient (n-octanol/water)	Not determined Not determined.		
Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomi	nended storage conditions		

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 Heat

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(Contd. of page 2) Carbon monoxide and carbon dioxide Nitrogen oxides
11 Toxicological information
Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/L C50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. 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. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subscute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
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 undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.
13 Disposal considerations
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made 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
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 in buik according to Annex in or MARY OLTS To and the DC Code Not applicable.
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 Not applicable Hazard pictograms Not applicable 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 must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) 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, female 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, female 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, female 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, female 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. Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. (Contd. on page 4)

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(Contd. of page 3) market and use must be observed. 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 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 us Department issuing SDS: Global Marketing Department Date of preparation / last revision 06/10/2016 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LD50: Lethal concentration, 50 percent VPUB: 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) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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