



1 Identification
Product identifier
Product name: Linomide
Stock number: J65453 CAS Number: #4099.42.6
84088-42-6 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
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.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
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 H302 Harmful if swallowed.
Precautionary statements P264 Wash thoroughly after handling
P204 Wash triologing allel handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.
P301+P312 IF SWALLOWED. Call a POISON CENTER/doctor//II you reel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification Not controlled
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
(Hazardous Materials Identification System)
Image: Instant (acute energy = 2       Image: I
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable. vPuP: Not applicable
vPvB: Not applicable.
3 Composition/information on ingredients Chemical characterization: Substances
Chemical characterization: Substances CAS# Description: 94098 42 6 42 Dibudro 4 budrows NN dimethyl 2 avo N phonyl 3
84088-42-6 1,2-Dihydro-4-hydroxy-N,N-dimethyl-2-oxo-N-phenyl-3- quinolinecarboxamide
4 First-aid measures
Description of first aid measures
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Se'ek îmmediate 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
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.
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:

If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

Product name: Linomide			
Nitrogen oxides (NOx) <b>Advice for firefighters</b> <b>Protective equipment:</b> Wear self-contained respirator. Wear fully protective impervious suit.	(Contd	l. of page 1)	
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: 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.			
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions: ed containers.		
8 Exposure controls/personal protection         Additional information about design of technical systems:         Property operating chemical lume 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 equipment         General protective and hyginc measures         The usual precautionary measures for handling chemicals should be followed.         Keep away from foodstuffs, beverages and feed.         Remove all solied and contaminated clothing immediately.         Wash hands before breaks and at the end of work.         Maintain an ergonomically appropriate working environment.         Breathing equipment: Use suitable respirator when high concentrations are present.         Record of hands:         Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.         Protection of hands:       Imperipove condition.         The se			
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Solid White Not determined Not determined.		
	Not applicable.		
Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined. Not determined Not determined Not determined Not determined.		
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Not determined. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable.	00.0270.21	
	(Conta.	on page 3) USA	

Product name: Linomide		
		(Contd. of page 2)
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	lot determined lot determined. lot applicable. lot applicable. lo further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomme Thermal decomposition / conditions to a Possibility of hazardous reactions Reac Conditions to avoid No further relevant ir Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	<b>be avoided:</b> Decomposition will not occur if used and stored according to specifications. ts with strong oxidizing agents formation available.	
Reproductive toxicity: No effects known. Specific target organ system toxicity - r Specific target organ system toxicity - s Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	ritation ritation n. n carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. <b>epeated exposure:</b> No effects known. <b>ingle exposure:</b> No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant inform Persistence and degradability No further Bioaccumulative potential No further relevant Mobility in soil No further relevant information: Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large qua Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant	r relevant information available. svant information available. ation available. environment without proper governmental permits. antities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or I Uncleaned packagings: Recommendation: Disposal must be mad	national regulations to ensure proper disposal. le 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		
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
• •	of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information: DOT		
DOT Marine Pollutant (DOT): UN "Model Regulation":	No	
15 Regulatory information Safety, health and environmental regula GHS label elements The product is classi	ntions/legislation specific for the substance or mixture fied and labeled in accordance with 29 CFR 1910 (OSHA HCS)	(Contd. on page 4,

(Contd. on page 4)

## Product name: Linomide

(Contd. of page 3) Hazard pictograms ! GHS07 Signal word Warning Hazard statements 

 Hazard statements

 H302 Harmful if swallowed.

 Precautionary statements

 P264
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 P270
 Do not eat, drink or smoke when using this product.

 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

 P300
 Piece mouth

 P330 P501 Rinse mouth. Dispose of contents/container in accordance with local/regional/national/international regulations. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National 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. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male 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 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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent UD50: VP Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Zafety for Research on Cancer EPA: Environmental Protection Agency (USA)

USA