

## Safety Data Sheet per OSHA HazCom 2012

Per USHA HazCom 2012	nting date 11/24/2015 viewed on 11/05/2012
1 Identification Product identifier Product name: <u>N-(gamma-Maleimidobutyryloxy)succinimide</u>	
Stock number: J61850 CAS Number: 80307-12-6 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) 9	
	28-0789.
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. <b>Hazards not otherwise classified</b> 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.         H315 May cause respiratory irritation.         H335 May cause respiratory irritation.         Precautionary statements         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 rint         P304+P340       IF INHALED: Remove person to fresh air and keep 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	ising.
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVE 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: 80307-12-6 N-(gamma-Maleimidobutyryloxy)succinimide	
<i>4 First-aid measures</i> Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After akin a contract	
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.	(Contd. on page 2) USA

## Product name: N-(gamma-Maleimidobutyryloxy)succinimide (Contd. of page 1) Information for doctor 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 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 material to be rel<u>e</u>ased to the environment without proper governmental permits. Methods and material for containent and cleaning up: Ensure adequate ventilation. 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. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Storage Requirements to be met by storerooms and receptacles: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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 equipment 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 eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves 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: Odor: White Not determined Odor threshold: Not determined Not applicable. pH-value: Change in condition Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto innition: 130-132 °C (266-270 °F) Not determined Not determined Not determined Not determined Not determined Not determined Auto igniting: Danger of explosion:

Not determined.

(Contd. on page 3)

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## Product name: N-(gamma-Maleimidobutyryloxy)succinimide

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Explosion limits:         Not determined           Lower:         Not determined           Upper:         Not determined           Density:         Not determined           Density:         Not determined           Density:         Not determined           Relative density         Not determined           Relative density         Not determined           Preportion the         Not determined           Solubity in Miscibility with         Not determined           Witer:         Not applicable.           Solubity in Miscibility with         Not determined.           Water:         Not applicable.           Otto information income.         Not applicable.           Otto information income.         Not humber relevant information available.           Otto information income.         Not information available.           Incompatible decomposition / conditions to be avolded storage conditions.         Thermal decomposition in conditions to be avolded storage conditions.           Incompatible materials:         Data information available.         Not information available.           Incompatible decomposition / conditions to be avolded actible.         Not information available.           Incompatible and eachoro dioxide         Mission available.         Not information           Informati	13		(Operated and an end O)		
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Other information         No higher relevant information available.           10 Stability and reactivity         Reactivity to information know.           Reactivity to information know.         The mining decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.           Possibility of natardous reactivity         Reactivity to instardous reactivity and instardous reactivity.           If is a stardous reactivity is a stardous reactivity.         Reactivity to instardous reactivity.           If is a stardous decomposition products:         Carbon monoscient of the stardous is according to specifications.           Carbon monoscie and estano lossible.         Stability of the stardous is according to specifications.           If oxicological information         Information on toxicological fields:           Shift initiation or corrosin: Causes skin initiation.         Stability of the stardous is according to specification:           Shift initiation or corrosin: Causes skin initiation.         Stardous decomposition and the stardous is available from the EPA, IARC, NTP, OSHA or ACGH.           Section of ordina carbon or according the stardous carbon or according to specification.         Stardous decomposition and the stardous according to specification.           Gene call mutgenicity: No effect known.         Activity of the stardous reactivity of the stardous reactivity of the stardous reactivity of the stardous reactivity.           Stability of oxing stepinto toxicity: respected deposure: No effect known. </th <th>dynamic: kinematic:</th> <th>Not applicable. Not applicable.</th> <th></th>	dynamic: kinematic:	Not applicable. Not applicable.			
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Heat	Incompatible materials:				
Heardous decomposition products: Cardon monoxide and cardon doxide Mingan oxides         Information           Information on toxicological effects Acute toxicity: No effects known.         Acute toxicity: No effects known.           LDL.CD values that are relevant for observation.         Experimination or corrosion: Causes serious are intervant and the statement of correct and the statement and the statement and the statement of correct and the statement and the statement and the statement and the statement and the statement and the statement and the					
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Specific target organ system toxicity - single exposure: May cause respiratory inflation. Aspiration hazard: No effects known. Additional hazard: No effects information Toxicity Additional information Toxicity No further relevant information available. Bioaccumulative potential No further relevant information available. Additional ecological information Toxicity Mobility in potential No further relevant information available. Bioaccumulative potential No further relevant information available. Additional ecological information: General notes: Do not allow unditied 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.  13 Disposal considerations Waste treatment methods Waste treatment information UN-Number DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, MDG, IATA Not applicable UN proper shipping name DOT, MDG, IATA Not applicable Environmental hazards:	Reproductive toxicity: No effects know	n.			
Aspiration hazard: No effects known: Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information: 13 Ecological information available. Mobility in soil No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation: Cisposal must be made according to official regulations. 14 Transport information UN-Number DoT, ADN, MDG, IATA Not applicable Not applicable Not applicable Transport hazard class(es) DoT, ADN, MDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable Transport hazard class(es) DoT, MDG, IATA Transport Information: Transport Academican further and the relevant information available. Mot applicable Transport fuely hazards: Not applicable Transport Academican fuely for MARPOLT377B and the IBC Code Not applicable. Transport Additional Information: DOT Marine Poluttant (DOT): No	Specific target organ system toxicity	- repeated exposure: No effects known.			
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USA -		INU	(Contd on page 4)		
			USA USA		

Product name: N-(gamma-Maleimidobutyryloxy)succinimide

(Contd. of page 3)

UN "Model Regulation": 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture 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 Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements D261 Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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 rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. 

 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 - Developmental toxicity, female 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.

 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.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH P501 Dispose of contents/container in accordance with local/regional/national/international regulations. The conditions of restrictions according to Article of and Annex XVII of the Regulation (EC) is 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 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) LD50: Lethal concentration, 50 percent US0: generent VP/B: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) USA