



		100 011 03/13/2012
	Identification	
	Product identifier Product name: N-Methyl-D-aspartic acid	
	Stock number: J61361	
	CAS Number: 6384-92-5	
	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	
	Infantier Canacom 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) 928-0	0789.
	Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS).	
	Hazards not otherwise classified No information known.	
	GHS label elements Not applicable Hazard pictograms Not applicable	
	Signal word Not applicable Hazard statements Not applicable	
	WHMIS classification Not controlled Classification system UNIS reacts 0.0	
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	HEALTH I FIRE I File Flammability = 1	
	Reactivity 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:	
	6384-92-5 N-Methyl-D-aspartic acid	
-	First-aid measures Description of first aid measures	
	After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	Septi mediate 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 No further relevant information available.	
	Indication of any immediate medical attention and special treatment needed No further relevant information available.	
	Fire-fighting measures Extinguishing media	
	Eximplifying 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) Advice for firefighters	
	Protective equipment: Wear self-contained respirator.	
	Wear fully protective impervious suit.	
-	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: 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.	(Control or an and Ch
		(Contd. on page 2) USA –

Product name: N-Methyl-D-aspartic acid

See Section 13 for disposal information.

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. 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: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from water/moisture. Do not store together with acids. Store away from strong bases. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Protect from humidity and water. Refrigerate 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. Maintain an ergonomically appropriate working environment Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves

The selection of suitable 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

or nysical and chemical properties				
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Powder White to off-white Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	187-192 °C (369-378 °F) Not determined Not determined Not determined Not determined Not determined Not determined			
Danger of explosion: Explosion limits: Lower: Upper: 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 determined. Not applicable. Slightly soluble Not determined. Not applicable.			

10 Stability and reactivity

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.

(Contd. of page 1)

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Product name: N-Methyl-D-aspartic acid				
Possibility of hazardous reactions Reacts with strong oxidizing age Conditions to avoid No further relevant information available. Incompatible materials: Acids Water/moisture Bases	ints	(Contd. of page 2)		
Oxidizing agents				
Heat Hazardous decomposition products:				
Carbon monoxide and carbon dioxide				
Nitrogen oxides				
LD/LC50 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.	ts known.			
10 Ecological information				
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 material to be released to the environment without proper governmental permits. 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 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				
Transport/Additional information:				
DOT				
Marine Pollutant (DOT):	No			
UN "Model Regulation":	-			
15 Regulatory information Safety, health and environmental regulations/legislation specific of GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency to research and development only. This product must be used by or di product must not be used for commercial purposes or in formulations of This product is not listed on the Canadian Domestic Substances List (SARA Section 313 (specific toxic chemical listings) Substance is no California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed	y Toxic Substances Control Act Chemical Substance Inventory. Use of this directly under the supervision of a technically qualified individual as defined for commercial purposes. (DSL) or the Canadian Non-Domestic Substances List (NDSL). not listed.	product is restricted by TSCA. This		
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.	u.			

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

Product name: N-MethyI-D-aspartic acid

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(Contd. of page 3) 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 XV 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 11/23/2015 / - 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 LD50: Lethal dose, 50 percent CAGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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