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1 Identification of substance	
Product details	
Trade name	L-Methionine methylsulfonium iodide
Stock number:	B21342
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthev.com
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department:	Product safety department.
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification	
Hazard designation:	void
Information pertaining to particular dangers	
for man and environment GHS label elements	Not applicable Void
3 Composition/information on ingredients	S
Chemical characterization:	
Designation: (CAS#) Identification number(s):	L-Methionine methylsulfonium iodide (CAS# 34236-06-1): 100%
EINECS Number:	251-893-0
4 First aid measures	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.
	Seek immediate medical advice.
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.
5 Fire fighting measures	
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:
products of compustion of free gases.	Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx) Sulphur oxides (SOx)
	Hydrogen iodide (H.I)
Protective equipment:	Wear self-contained breathing apparatus.
	Wear full protective suit.
6 Accidental release measures	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.
	Ensure adequate ventilation
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Collect mechanically.
Additional information:	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. See Section 13 for information on disposal.
7 Handling and storage	
Handling	
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
	No special precautions necessary if used correctly.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.
	Keep Ignition Sources away - Do not smoke.
Storage Requirements to be met by storerooms and	
containers:	No special requirements.
Information about storage in one common storage facility:	Store away from oxidizing agents.
Further information about storage	
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.
8 Exposure controls and personal protec	tion
Additional information about design of	Proventing a second designed for hereigned and hereigned and hereigned and hereigned and hereigned and hereigned for velocity of at
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require	
monitoring at the workplace: Additional information:	Not required.
	No datá
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.
	Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
Breathing equipment:	Use breathing protection with high concentrations.
Protection of hands:	Check protective gloves prior to each use for their proper condition.
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
The standard standard standards	Impervious aloves
Penetration time of glove material Eye protection:	Not determined Safety glasses
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	according to 1907/2006/EC, Article 31	
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Body protection:	Protective work clothing. (Contd. of page 1	
9 Physical and chemical properties:		
General Information		
Form: Smell:	Solid. Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	156-157°C Not determined Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion: Critical values for explosion:	Product is not explosive.	
Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density	Not determined	
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Hydrogen iodide (HI)	
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	May cause irritation May cause irritation No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information: Additional ecological information: General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.	
13 Disposal considerations Product: Recommendation Uncleaned packagings:	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.	
Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (ADR/RID-GGVS/E Class:	cross-border/domestic) None	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).	
National regulations Information about limitation of use:	For use only by technically qualified individuals.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
16 Other information: Employers should use this information only as information to ensure proper use and protect th	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in	

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.

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Department issuing data specification sheet Contact: Abbreviations and acronyms:	: Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Kir Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	