



Page 1/5 Printing date 07/18/2017 Revision date 07/17/2017 Version 2

	VE131011 Z
1 Identification Product identifier	
Product name: <u>4-Methylbenzenesulphonylhydrazide</u>	
Stock number: A13529, L00182 CAS Number: 1576-35-8 EC number:	
216-407-3 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) 928-0	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS02 Flame	
Flam. Sol. 2 H228 Flammable solid.	
Self-react. D H242 Heating may cause a fire.	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed. Hazards not otherwise classified No information known. Label elements	
GHS label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS02 GHS06	
Signal word Danger Hazard statements H228 Flammable solid. H242 Heating may cause a fire. H301 Toxic if swallowed.	
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor.	
WHMIS classification B4 - Flammable solid D1B - Toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH II III IIII FRE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 1576-35-8 4-Methylbenzenesulphonylhydrazide Concentration: <100% Identification number(s): EC number: 216-407-3	
4 First-aid measures	
4 First-and measures Description of first aid measures After inhalation	
After Innalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2)
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Product name: 4-Methylbenzenesulphonylhydrazide

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Seek immediate 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 Toxic if swallowed. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 Sulfur oxides (SOx) 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 Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. 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. Storein in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical turne 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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maint an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recomed differe for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to det purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: 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. Material of gloves Nitrile (rubber, NBR Penetration time of glove material (in minutes) 480 	termine if air-
Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.	(Contd. on page 3)
	(Contd. on page 3)

Product name: 4-Methylbenzenesulphonylhydrazide

	(Contd. of pa	age 2)		
9 Physical and chemical properties	S			
Information on basic physical and chemical properties General Information				
Appearance: Form:	Powder			
Odor: Odor throshold:	Not determined			
Odor threshold:	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:	108-111 °C (226-232 °F) Not determined Not determined Highly flammable. Not determined Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Not determined Not applicable. 1.4 g/cm³ (11.683 lbs/gal) Not determined. Not applicable. Not applicable. Not determined): Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.			
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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides				
11 Toxicological information Information on toxicological effects				
Acute toxicity: Toxic if swallowed.				
	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification:			
	classification:			
Oral LD50 283 mg/kg (rat) 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 effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Seperities 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: 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				
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. (Contd. on page 4)				
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Product name: 4-Methylbenzenesulphonylhydrazide

(Contd. of page 3)

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3)			
Recommendation: Disposal must be made according to official regulations.				
UN-Number DOT, IMDG, IATA	UN3226			
UN proper shipping name DOT ADR IMDG, IATA	Self-reactive solid type D (4-Methylbenzenesulphonylhydrazide) 3226 Self-reactive solid type D (4-Methylbenzenesulphonylhydrazide) SELF-REACTIVE SOLID TYPE D (4-Methylbenzenesulphonylhydrazide)			
Transport hazard class(es) DOT				
Class Label ADR	4.1 Flammable solids, self-reactive substances and solid desensitised explosives 4.1			
Class Label IMDG, IATA	4.1 (SR1) Flammable solids, self-reactive substances and solid desensitised explosives 4.1			
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosives 4.1			
Pacting group DOT ADR, IMDG, IATA	II Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user EMS Number: Stowage Category Stowage Code Segregation Code	Warning: Flammable solids, self-reactive substances and solid desensitised explosives F-J,S-g D SW1 Protected from sources of heat. SG35 Stow "separated from" acids. SG36 Stow "separated from" alkalis.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT Quantity limitations	On passenger aircraft/rail: 5 kg On cargo aircraft only: 10 kg			
Marine Pollutant (DOT):	No			
IMDG Limited quantities (LQ) Excepted quantities (EQ)	500 g Code: E0 Not permitted as Excepted Quantity			
UN "Model Regulation":	UN 3226 SELF-REACTIVE SOLID TYPE D (4- METHYLBENZENESULPHONYLHYDRAZIDE), 4.1			

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



Signal word Danger Hazard statements H228 Flammable solid. H242 Heating may cause a fire. H301 Toxic if swallowed. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). 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. (Contemponents of the contemponent of the substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.

Product name: 4-Methylbenzenesulphonylhydrazide

(Contd. of page 4)

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. 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. International very list of the state of the project and provided with a state of the product or process, is the responsibility of the user.
 Department issuing SDS: Global Marketing Department
 Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Air Transport Association
 IATA: International Air Transport Association
 IENECS: Loropean Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 HMIS: Hazardous Materials Information System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 LC50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 ACGIH: American Conference of Governmental Industrial Hygienists (USA)
 OSHA: Occupational Safety and Health Administration (USA)
 NTP: National Toxicology Program (USA)
 THR: Fersional Conference of Governmental Industrial Hygienists (USA)
 ACGIH: American Conference of Governmental Industrial Hygienists (USA)
 ACH: Environmental Protection Agency for Research on Cancer
 EPA: Environmental Protection Agency (USA)
 Flam: Sol: Z Hammable Solds – Category 2
 Self-react. D: Self-reactive substances and mixtures – Type C/D
 Acute Tox. 3: Acute toxicity – Category 3