

Safety Data Sheet per OSHA HazCom 2012



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4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. 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 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	
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.	
Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.	
Methods and material for containment and cleaning up: Keep away from ignition sources.	
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 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.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires:	
Protect from heat. 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: Do not store together with acids.	
Store away from oxidizing agents.	
Further information about storage conditions: Keep container tightly sealed.	
Store 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 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	
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.	
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.	
Recommended filter device 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 de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	etermine if air-
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	
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 Glove thickness 0.11 mm	
Glove thickness 0.11 mm	
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Eye protection: Safety glasses

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Eye protection: Safety glasses Body protection: Protective work cloth	ing.	
9 Physical and chemical properties	s	
Information on basic physical and ch General Information Appearance:	nemical properties	
Form: Color:	Powder White to off-white	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	112-114 °C (234-237 °F) (dec) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable Highly flammable. Not determined	
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Heating may cause an explosion.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined): Not determined.	
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	Not applicable. No further relevant information available.	
Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Acids Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides (SOx)	imended storage conditions. to be avoided : Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents nt information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties 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: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute 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		
Aquatić toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to	relevant information available. rmation available. the environment without proper governmental permits.	
Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse affects No further relevant		

Other adverse effects No further relevant information available.

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Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulation Uncleaned packagings: Recommendation: Disposal must be made according to of	
Transport information	
UN-Number DOT, IMDG, IATA	UN1325
UN proper shipping name	UN 1320
DOF IMDG, IATA	Flammable solids, organic, n.o.s. (Mesitylene-2-sulfonyl hydrazide) FLAMMABLE SOLID, ORGANIC, N.O.S. (Mesitylene-2-sulfonyl hydrazide)
Transport hazard class(es) DOT	
Class	4.1 Flammable solids, self-reactive substances and solid desensitised explosives.
Label Class	4.1 4.1 (F1) Flammable solids, self-reactive substances and solid desensitised
Label IMDG, IATA	explosives 4.1
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosives 4.1
Packing group DOT, IMDG, IATA	
	 Not applicable
Environmental hazards: Special precautions for user	Not applicable. Warning: Flammable solids, self-reactive substances and solid desensitised
EMS Number:	explosives F-A.S-G
Transport in bulk according to Annex II of MARPOL73/7	
Transport/Additional information:	
DOT	
DOT Marine Pollutant (DOT):	No
DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information	No UN1325, Flammable solids, organic, n.o.s. (Mesitylene-2-sulfonyl hydrazide), 4.1 III
Transport/Additional information: DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled i Hazard pictograms GHS02 GHS07	No UN1325, Flammable solids, organic, n.o.s. (Mesitylene-2-sulfonyl hydrazide), 4.1 III
DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled is Hazard pictograms Control Control Contro	No UN1325, Flammable solids, organic, n.o.s. (Mesitylene-2-sulfonyl hydrazide), 4.1 III III III III III III In specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Surs/spray. Ig/eye protection/face protection. Tor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ance with local/regional/national/international regulations. On Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict ed by or directly under the supervision of a technically qualified individual as defined by TSCA. This multions for commercial purposes. neces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Istance is not listed. bi listed. Isted. Isted. Isted.
DOT Marine Pollutant (DOT): UN "Model Regulation": Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled i Hazard pictograms Coord Figure 1 (1997) Coord Hazard statements H228 Flammable solid. H315 Causes skin iditation. H319 Causes serious eye irritation. H319 Causes serious eye of contents/container in accorda Mear protective gloves/profective clothin P305+P351+P338 IF IN EYES: Rinse cautiously with water P405 Store locked up. P501 Dispose of contents/container in accorda National regulations This product is not listed in the U.S. Environmental Protectic to research and development only. This product must be us product must not be used for commercial purposes or in forn This product is not listed on the Canadian Domestic Substan SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techn Prop 65 - Developmental toxicity, male Substance is not Horomation about limitation of use: For use only by techn	No UN1325, Flammable solids, organic, n.o.s. (Mesitylene-2-sulfonyl hydrazide), 4.1 III III III III III III In specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Surs/spray. Jurs/spray.

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 accoryms: 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 Association EINECS: European Inventory of Existing Commercial Chemical Substances EAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent UDSO: Lethal concentration and rever Bioaccumulative ACGIH: American Columetrial Industrial Hygienists (USA) OSH: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)

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USA