

Safety Data Sheet per OSHA HazCom 2012



Product name: 2-(Bromomethyl)benzonitrile

(Contd. of page 1)

 4 First-aid measures Bescription of the taid measures Bescription Bescription	
General information Immediately remove any clothing solied by the product. After shalation Supply first air. If required, provide artificial respiration. Keep patient warm. Supply first air. If required, provide artificial respiration. Keep patient warm. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediately wash with water and soap and rinse thoroughly. Seek immediately mediate and advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After skin contact Information for doctor Most important symptoms and effects, both acute and delayed Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing from the subscince or mhuter If this product is involved in a fire, the following can be released: Carbon movide and carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Mitrogen cyanide (HCN) Mitrogen cyanide (HCN) Mitrogen cyanide (HCN) Mitrogen cyanide (HCN) Mitrogen cyanide (HCN) Mitrogen cyanide respirator. Wear self-contained respirator. Wear self-contained respirator. Wear self-contained respirator. Wear self-contained respirator. Wear self-contained respirator. Mean fully protective improvious suit. 6 Accidental release measures Personal precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of containmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of containmental metrial as waste according to section 13. Provention of secondary hazards: No special measures required. Referenc	
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A ANDRONOUS OF SALE STOLADE, INCOMING ANY INCOMORIDINES	
Storage Requirements to be met by storerooms and receptacles: No special requirements.	
Information about storage in one common storage facility: Store away from strong bases.	
Store away from alcohols.	
Store away from amines. 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 General protective and hygienic measures	
I he 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. 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 determ purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	
Protection of hands:	mine if air-
Check protective gloves prior to each use for their proper condition.	mine if air-
	mine if air- Contd. on page 3)

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Product name: 2-(Bromomethyl)benzonitrile

(Contd. of page 2) 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)** Not determined **Eye protection:** Tightly sealed goggles Full face protection_ Body protection: Protective work clothing.

9 Physical and chemical properties

9 Physical and chemical properties	9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Crystalline powder White to pale cream Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	70-74 °C (158-165 °F) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable 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	Product does not present an explosion hazard. Not determined Not applicable. Not determined. Not determined. Not applicable. Insoluble Not applicable. Not determined. Not applicable. 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. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Bases Alcohols Amines Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide Nitrogen oxides Hydrogen cyanide 11 Toxicological information Information on toxicological effects Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful is swallowed. Danger through skin absorption. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: This product is a lachrymator. Causes serious eve damage Inis product is a lacinymator. Causes serious eye damage. Sensitization: May cause an allergic skin reaction. 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: No effects known. Specific target organ system toxicity - single exposure: No effects known. 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

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.

Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 12/09/2008
Product name: 2-(Bromomethyl)benzonitrile	
Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without Do not allow undiluted product or large quantities to reach grour 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 Uncleaned packagings: Recommendation: Disposal must be made according to official	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2923
UN proper shipping name DOT	Corrosive solids, toxic, n.o.s. (2-(Bromomethyl)benzonitrile)
IMDG, IATA Transport hazard class(es)	CORROSIVE SOLID, TOXIC, N.O.S. (2-(Bromomethyl)benzonitrile)
DOT Class Label Class Label IMDG, IATA Class	8 Corrosive substances. 8+6.1 8 (CT2) Corrosive substances 8+6.1
	8 Corrocivo substancos
Class Label	8 Corrosive substances. 8+6.1
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Corrosive substances F-A,S-B
Transport in bulk according to Annex II of MARPOL73/78 an	id the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2923, Corrosive solids, toxic, n.o.s. (2-(Bromomethyl)benzonitrile), 8 (6.1), II
15 Regulatory information Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in ac Hazard pictograms GHS05 GHS07 Signal word Danger Hazard statements	scordance with 29 CFR 1910 (OSHA HCS)
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT indu P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used b product must not be used for commercial purposes or in formula	spray. ontaminated clothing. Rinse skin with water/shower. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. uce vomiting. with local/regional/national/international regulations. gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. s List (DSL) or the Canadian Non-Domestic Substances List (NDSL). to e is not listed.

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(Contd. of page 4)

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. 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 user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 /
Abbreviations and acronyms:

RD: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods kegulations by the "International Air Transport Association" (IATA)
ICAO: The Technical Instructions by the "International Civil Aviation Organization" (ICAO)
IAR: Abcreviations and le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IAR: AbCR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO)
ICAO: The Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ICAO: Thermational Martitume 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 Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IAR: Accent européen sur le transport Association
IAR: Accent européen Service (division of the American Chemical Society)
HMIS: Wardisce Hazardous Materials Information System (Canada)