

Safety Data Sheet per OSHA HazCom 2012



Product name: 2,5-Dibromoaniline

Identification number(s): EC number: 222-865-5

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 Methemoglobinemia 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

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Hydrogen bromide (HBr) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. 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:** 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. 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: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: 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. 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: Not required. 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Experiences groves 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. Eye protection: Safety glasses Body protection: Protective work clothing.

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9 Physical and chemical properties

(Contd. of page 2)

Information on basic physical and chemical properties		
General Information Appearance:		
Form:	Crystalline	
Color: Odor:	Light brown Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	52-56 °C (126-133 °F)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous)	> 110 °C (> 230 °F) Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Insoluble	
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide Possibly Hydrogen cyanide (HCN)		
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed.		
Toxic in contact with skin. Danger through skin absorption. 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: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer.		
<u>_</u>	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 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		

PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.

(Contd. of page 3)

3 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local or national regulations to ensure Uncleaned packagings:	
Recommendation: Disposal must be made according to official regulat	tions
4 Transport information	
UN-Number	
DOT, IMDG, IATA	UN2811
UN proper shipping name DOT	Toxic solids, organic, n.o.s. (2,5-Dibromoaniline)
IMDG, IATA	TOXIC SOLID, ORGANIC, N.O.S. (2,5-Dibromoaniline)
Transport hazard class(es)	
DOT	
~	
Class Label	6.1 Toxic substances. 6.1
Class Label	6.1 (T2) Toxic substances 6.1
IMDG, IATA	0. 1
×	
Class	6.1 Toxic substances.
Label	6.1
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 and the I	BC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2,5-Dibromoaniline), 6.1, III
5 Regulatory information Safety, health and environmental regulations/legislation specific fo GHS label elements The product is classified and labeled in accordanc Hazard pictograms	or the substance or mixture
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 Date of preparation / last revision 11/23/2015 /

 Abbreviations and acronyms:

 RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

 ICAO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

 ICAO: Therenational Concernation

 ICAO: Therenational Concernation

 ICAO: Therenational Concernation

 ICAO: Therenational Concernation

 ICAO: Therenational Maritime Code for Dangerous Goods

 DOT: US Department of Transport Association

 INF: Réglemation Alexity Transport Association

 IATA: International Air Transport Association

 INF: Section of Transport and 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)

 L550: Lethal concentration, So percent

 L90: Lethal cose, 50 percent

(Contd. of page 4)

USA