





Product name: 2-Bromoimidazole

(Contd. of page 1)

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 Nitrogen oxides (NOx) 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 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:** 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. 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: Refrigerate Information about storage in one common storage facility: Protect from heat

Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed.

Refrigerate 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

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. 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 determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves

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. **Eye protection:** Tightly sealed goggles **Body protection:** Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Needles Color: Brown Odor: Not determined

(Contd. on page 3)

2-Bromoimidazolo Pi duct

Page 3/4 Printing date 11/24/2015 Reviewed on 08/19/2015

	Ke	eviewed on 08/19/2015
Product name: 2-Bromoimidazole		
		(Contd. of page 2)
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	197 °C (387 °F)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined Not applicable.	
Vapor pressure: Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
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.	to the second data and the sec	
Chemical stability Stable under recom Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	eacts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials:	it information available.	
Oxidizing agents		
Heat Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
Hydrogen bromide		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: Harmful if swallowed.		
LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation.		
Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects kn	nown.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	i - repeated exposure: No effects known	
Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
	דט נוופ Dest טו טעו גווטאופעצי נוופ מכענפ מות כוווטרווכ נסגוכונץ טו נוווא שמשאמונים וא חסר זעווץ גווטאוז.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in	stormation available	
Persistence and degradability No furt	ther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.	
Additional ecological information:	maion available.	
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 releva	vant information available	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.		
Uncleaned packagings:		
Recommendation: Disposal must be n	nade according to official regulations.	
14 Transport information		
UN-Number	N=+K==+ I=	
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
		(Contd. on page 4)

	Reviewed 01 06/19/2013
Product name: 2-Bromoimidazole	
	(Contd. of page 3)
Transport hazard class(es)	(contai o page o)
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the	he IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
 P304+P340 IF INHALED: Remove person to fresh air and ke P405 Store locked up. P501 Dispose of contents/container in accordance with National regulations This product is not listed in the U.S. Environmental Protection Agen to research and development only. This product must be used by or product must not be used for commercial purposes or in formulation. This product is not listed on the Canadian Domestic Substances Lis SARA Section 313 (specific toxic chemical listings) Substance i California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Information about limitation of use: For use only by technically qu Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REAC The conditions of restrictions according to Article 67 and Annemarket and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation Chemical safety assessment: A Chemical Safety Assessment to othe information to ensure proper use and protect the health and safety of conformation to tars proper use and protect the health and safety of conformation to aster proper use and protect the health and safety of conformation to aster proper use and protect the health and safety of conformation to aster proper use and protect the health and safety of conformation to aster proper use and protect the health and safety of conformation to aster proper use and protect the health and safety of conformation to aster transport des marchandises dangereuses par Route (Europ Dot: US Department Jast revision 11/24/2015/-Abbreviations and acronyms: ADBR-exord us Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCGO: Lethal concertance days bervering and account Statemation System (Canada) LCGO: Lethal concertance of preparation	dance with 29 CFR 1910 (OSHA HCS) ay. rotection/face protection. real minutes. Remove contact lenses, if present and easy to do. Continue rinsing. rep comfortable for breathing. h local/regional/national/international regulations. ry Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted r directly under the supervision of a technically qualified individual as defined by TSCA. This is for commercial purposes. st (DSL) or the Canadian Non-Domestic Substances List (NDSL). is not listed. ted. ualified individuals. CH Regulations (EC) No. 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the for use) Substance is not listed. s not been carried out. er information gathered by them, and should make independent judgement of suitability of this of employees. This information is furnished without warranty, and any use of the product not in n with any other product or process, is the responsibility of the user.
LDOD. Letrial dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
	USA