





Product name: 6-Bromopiperonal (Contd. of page 1) 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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: 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. Store away from strong bases. 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 General 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. 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: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Not determined Odor threshold: Not determined pH-value: Not applicable , Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

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Product name: 6-Bromopiperonal		
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Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known		
Chemical stability Stable under recom Thermal decomposition / conditions	nmended storage conditions. t o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions N	lo dangerous reactions known	
Conditions to avoid No further relevar Incompatible materials:	nt information available.	
Oxidizing agents Bases		
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Hydrogen bromide		
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 s	skin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kr	nown.	
Germ cell mutagenicity: No effects kn	nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	wn.	
Specific target organ system toxicity Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe		
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 in Persistence and degradability No further	nformation available. ther relevant information available	
Bioaccumulative potential No further	relevant information available.	
Mobility in soil No further relevant info Additional ecological information:	ormation available.	
General notes:	the environment without proper governmental permits	
Do not allow undiluted product or large	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmer	nt	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relev	vant information available.	
13 Disposal considerations		
Waste treatment methods	er national regulations to ansure moner dianosal	
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be n	nade according to official regulations.	
14 Transport information Not a hazardous material for transporta	tion	
UN-Number	10011.	
DOT, ÎMDĜ, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
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oduct name: 6-Bromopiperonal	
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Transport in bulk according to Annex II of MARPOL73,	
Transport/Additional information: DOT	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
P405 Store locked up. P501 Dispose of contents/container in accord Mational regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be u product must not be used for commercial purposes or in fo SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed Prop 65 - Developmental toxicity, female Substance is not listed Prop 65 - Developmental toxicity, male Substance is not listed Prop 65 - Developmental toxicity, male Substance is not listed Substance of Very High Concern (SVHC) according to Other regulations, limitations and prohibitive regulation Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess Other information Employers should use this information only as a supplement Information to ensure proper use and protect the health ar conformance with this Material Safety Data Sheet, or in comployers should use this information 1/24/2015 / - Abbreviational Maritime Code for Dangerous Goods DOT: Use partment issuing SDS: Global Marketing Department Date of preparation / last revision of the American Chemical	d in accordance with 29 CFR 1910 (OSHA HCS) pours/spray. ing/eye protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ormulations for commercial purposes. ubstance is not listed. e is not listed. d. d. or listed. of listed. of listed. of listed. of the Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the orisation for use) Substance is not listed. sisment has not been carried out. ent to other information gathered by them, and should make independent judgement of suitability of this or disafet of employees. This information is furnished without warranty, and any use of the product not in orbination with any other product or process, is the responsibility of the user.
ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
USHA: Occupational Safety and Health Administration (USA)	
LDS0: Lettral Ose, 30 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)	