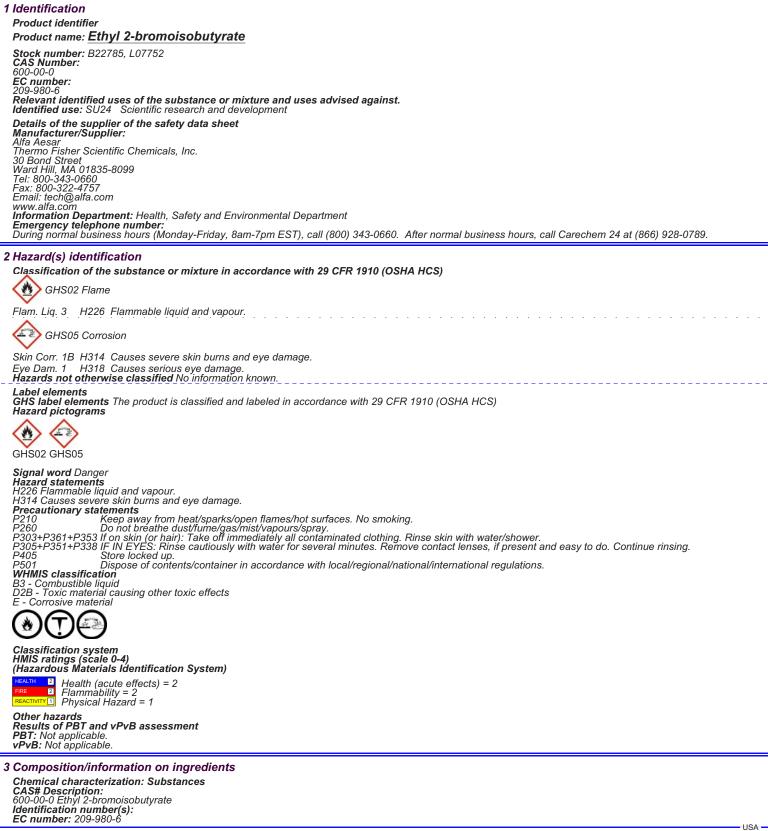


Safety Data Sheet per OSHA HazCom 2012



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Product name: Ethyl 2-bromoisobutyrate

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Product name: Ethyl 2-bromoisobutyrate

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 ch General Information Appearance: Form: Odor: Odor threshold:	emical properties Liquid Not determined Not determined.		
pH-value:	Not determined.		
	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 65-67 °C (149-153 °F) (11mm Hg) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	60 °C (140 °F) Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic:	Not determined. Not determined Not determined 1.32 g/cm ² (11.015 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.		
Other information	No determined. 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 Hydrogen bromide

11 Toxicological information

 Toxicological information

 Information on toxicological effects

 Acute toxicity: 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: Causes serious eye damage.

 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.

 Aspiration hazard: No effects known.

 Specific target organ system toxicity: No effects known.

 Aspiration hazard: No effects known.

 Aspiration hazard: No effects known.

 Absolute 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. 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.

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 ensure proper disposal. Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Safety Data Sheet per OSHA HazCom 2012

Product name: Ethyl 2-bromoisobutyrate

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4 Transport information	
UN-Number	
DOT, IMDG, IATA	UN2924
UN proper shipping name DOT IMDG, IATA	Flammable liquids, corrosive, n.o.s. (Ethyl 2-bromoisobutyrate) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethyl 2-bromoisobutyrate)
Transport hazard class(es)	
DOT	
🔶 🐳	
Class	3 Flammable liquids.
Label Class	3+8 3 (FC) Flammable liquids
Label	3+8
IMDG, IATA	
Class Label	3 Flammable liquids. 3+8
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	Warning: Flammable liquids
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2924, Flammable liquids, corrosive, n.o.s. (Ethyl 2-bromoisobutyrate), 3 (8), III
5 Regulatory information	
GHS02 GHS05 Signal word Danger Hazard statements H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated cl P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regi National regulations All components of this product are listed in the U.S. Environmental Protection . All components of this product are listed on the Canadian Non-Domestic Subs SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity nale Substance is not listed. Prop 65 - Developmental toxicity nale Substance is not listed. Prop 65 - Developmental toxicity nale Substance is not listed. Prop 65 - Developmental toxicity nale Substance is not listed.	othing. Rinse skin with water/shower. s. Remove contact lenses, if present and easy to do. Continue rinsing. onal/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. tances List (NDSL).
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of to market and use must be observed. Substance is not listed.	tions (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Su Chemical safety assessment: A Chemical Safety Assessment has not been 6 Other information	tions (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ubstance is not listed. carried out.
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Su Chemical safety assessment: A Chemical Safety Assessment has not been 6 Other information Employers should use this information only as a supplement to other informatio	tions (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the libstance is not listed. carried out. on gathered by them, and should make independent judgement of suitability of this as. This information is furnished without warranty, and any use of the product not in

Product name: Ethyl 2-bromoisobutyrate

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) (Contd. of page 4)

USA -