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Material Safety Data Sheet

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Ethyl 2-bromoisovalerate

Section 1: Chemical Product and Company Identification

Molecular formula: C₇H₁₃BrO₂

CAS Nr: 609-12-1

EINECS: 210-178-3

Molecular weight: 209.08

Synonyms: Ethyl 2-bromoisovalerate,(2-Bromoisovaleric acid ethyl ester);
Ethyl 2-bromo-3-methylbutyrate;2-bromo-3-methyl-butanoicaciethylester;
2-Bromoisovatericacidethylester; Ethyl 2-bromo-3-methylbutanoate;

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ethyl 2-bromoisovalerate	609-12-1	100

Section 3: Hazards Identification

Caution! Combustible liquid and vapor. The toxicological properties of this material have not been fully investigated.

May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation. The toxicological properties of this material have not been fully investigated.

Skin: May cause skin irritation. The toxicological properties of this material have not been fully investigated.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully

investigated.

Chronic: No information found.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting.

If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical aid.

Section 5: Fire and Explosion Data

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid.

Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Containers may explode when heated.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire.

Autoignition Temperature: Not available

Flash Point: 65 deg C (149.00 deg F)

Section 6: Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

Section 7: Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat,

sparks or open flames.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

OSHA Vacated PELs: Butanoic Acid, 2-Bromo-3-Methyl-, Ethyl Ester: None listed Engineering

Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a Not available

Respirators:

NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: clear almost colorless

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: 7.2

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 77 deg C @ 12.00mm Hg (170.60 F)

Freezing/Melting Point: Not available

Decomposition Temperature: Not available

Solubility in water: Not available

Specific Gravity/Density:

Molecular Formula: C7H13BrO2

Molecular Weight: 209.08

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat, strong oxidants.

Incompatibilities with Other Materials Not available

Hazardous Decomposition Products Carbon monoxide, carbon monoxide, carbon dioxide, bromine fumes.

Hazardous Polymerization Has not been reported.

Section 11: Toxicological Information

RTECS#: CAS# 609-12-1: None listed

LD50/LC50: RTECS: Not available.

Carcinogenicity: Butanoic Acid, 2-Bromo-3-Methyl-, Ethyl Ester - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12: Ecological Information

Not available

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 609-12-1: Not available

Canada

CAS# 609-12-1 is listed on Canada's NDSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 609-12-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 609-12-1 is listed on the TSCA

Inventory.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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