

4. FIRST AID: EMERGENCY PROCEDURES

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention

Inhaled : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Swallowed : Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. FIRE AND EXPLOSION

Flash Point : CLOSED CUP: 23.9°C (75°F). (TAG) OPEN CUP: 37°C (98.6°F) (Cleveland).

Auto ignition 232°C (DIN 51794) : 449.6

Flammable limits in air, volume % : Lower (LEL): 1.7 % Upper (UEL): 7.6 %

Fire extinguishing materials :
Water spray : N/A Carbon dioxide : √ other: N/A
Foam : √ Dry chemical : √

Special fire fighting procedures : Do not use direct water stream.

Unusual fire and explosion hazards : N/A

6. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Soak up with inert material

Preparing wastes for disposal (container types, neutralization, etc): Soak up with absorbent material store in pails or drums.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Keep out of the reach of children. Keep away from sources of ignition .Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Do not freeze or heat above 40°C (104°F)

8. EXPOSURES CONTROL AND PERSONAL PROTECTION

Ventilation and engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective thresholds limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Respiratory protection (type) : Wear NIOSH approved respiratory protection.

Eye protection (type) : Wear chemical splash goggles.

Gloves (specify material) : Impervious gloves.

Other clothing and equipment : Wear clean, long – sleeved, body covering clothing.

Work practices, hygienic practices : Maintain good housekeeping standards.

Other handling and storage requirements: Should be stored at temperature between 4-40° C. Avoid freezing or extended storage in high temperature.

Protective measures during maintenance of contaminated equipment: See above.

9. PHYSICAL PROPERTIES

Vapor density (air=1) : 4.1 Melting point or range, °F : N/A

Specific gravity @25°C : 0.88 Boiling point or range, °F : 259.7

Solubility in water : Partially soluble

Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20°C : 1.3 kPa (@ 20°C) pH : 8-10

Appearance and odor : Colour less to pale yellow clear liquid, slight odour.

HOW TO DETECT THIS SUBSTANCE (Warning properties of substance as a gas, vapor, dust, or mist): N/A.

10. REACTIVITY DATA

Stability : Stable

Conditions to avoid : Heat, flame .Avoid freezing or extended storage in higher temperature

Incompatibility (materials to avoid) : Incompatible with oxidizing agents.

Hazardous decomposition products (Including combustion products): (from burning, heating, or reaction with other materials) : Thermal decomposition may produce carbon monoxide, carbon dioxide, hydrogen fluoride .

Hazardous polymerization : Will not occur.

11. TOXICOLOGY INFORMATION

Acute toxicity

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Chronic Effects on Humans:

Causes damage to the following organs: skin, eyes, central nervous system (CNS). May cause damage to the following organs: blood, kidneys, lungs, the nervous system, mucous membranes, peripheral nervous system, gastrointestinal tract, upper respiratory tract, ears.

Other Toxic Effects on Humans:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Moderately toxic and narcotic in high concentrations.

Reproductive Effects: No hazardous ingredients

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Mobility in environment: Not available.

13. DISPOSAL INFORMATION

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

Land transport (USDOT)

Proper shipping name: Butyl acetate. Hazard class: 3, ID number: UN 1123, Packing group: III

Sea transport (IMDG)

Proper shipping name: Butyl acetate. Hazard class: 3, ID number: UN 1123, Packing group: III, Marine pollutant: Yes

Air transport (IATA/ICAO)

Proper shipping name: Butyl acetate. Hazard class: 3, ID number: UN 1123, Packing group: III,

15. REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R10- Highly flammable. R 20 - Very toxic in contact with skin and if swallowed. R36/38- Irritating to eyes and skin. S1/2-Keep locked up and out of the reach of children. S28- After contact with skin, wash immediately with plenty of water. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seeks medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 3

Reactivity: 0

Personal Protection: H

Protective Equipment:

Gloves (impervious), Synthetic apron. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. OTHER INFORMATION

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