OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

N-BUTYL ACETATE

Extra Pure

MSDS CAS: - 123-86-4

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: N-BUTYL ACETATE Extra Pure
CAS#: - 123-86-4
C.I. No.: Not available.
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula: CH3COO(CH2)CH3
Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
{n-}Butyl acetate	123-86-4	100

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. 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. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

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

Serious Inhalation: **Not available.**

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **Flammable.**

Auto-Ignition Temperature: **421°C (789.8°F)**

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

Section 5: Fire and Explosion Data (Continued)

Flammable Limits: LOWER: 1.7% UPPER: 7.6%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:

Flammable in presence of open flames and sparks. Slightly flammable to flammable in presence of oxidizing materials, of acids, of alkalis.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of oxidizing materials, of acids, of alkalis.

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Section 7: Handling and Storage (Continued)

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

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

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 150 CEIL: 200 TWA: 710 CEIL: 950 Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Liquid.**
Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: 116.16 g/mole**
Color	**: Not available.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: 126.5°C (259.7°F)**
Melting Point	**: -77.9 (-108.2°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: 0.9 (Water = 1)**
Vapor Pressure	**: 1.3 kPa (@ 20°C)**
Vapor Density	**: 4.01 (Air = 1)**
Volatility	**: Not available.**

Section 9: Physical and Chemical Properties (Continued)

Odor Threshold : 0.31 ppm
Water/Oil Dist. Coeff. : The product is equally soluble in oil and water; log(oil/water) = 0
Ionicity (in Water) : Not available.
Dispersion Properties : See solubility in water.
Solubility : Partially soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Not available.
Corrosivity: Non-corrosive in presence of glass.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 10768 mg/kg [Rat]. Acute dermal toxicity (LD50): 17601 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 2000 4 hours [Rat].
Chronic Effects on Humans: Causes damage to the following organs: lungs, the nervous system, mucous membranes.
Other Toxic Effects on Humans:
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), 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: Not available.

Section 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.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

14.1. Land transport (ADR-RID)

Proper shipping name	: BUTYL ACETATES
UN N°	: 1123
H.I. nr	: 30
ADR – Class	: 3
Labelling – Transport	: 3 : Flammable liquid.

14.2. Sea transport (IMDG) [English only]

Proper shipping name	: BUTYL ACETATES
UN N°	: 1123
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: III

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: BUTYL ACETATES
UN N°	: 1123
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: III

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: n-Butyl acetate Massachusetts RTK: n-Butyl acetate TSCA 8(b) inventory: n-Butyl acetate CERCLA: Hazardous substances.: n-Butyl acetate
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
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- Flammable. R20- Harmful by inhalation. R36/38- Irritating to eyes and skin.
HMIS (U.S.A.):
Health Hazard: 1
Fire Hazard: 3
Reactivity: 0
Personal Protection: h
National Fire Protection Association (U.S.A.):
Health: 1
Flammability: 3
Reactivity: 0
Specific hazard:
Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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