

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

N0184

NAT. AMYL BUTYRATE

**PRODUCT NAME** 

**SUPPLIER** 

Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

## FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

## 2. HAZARD IDENTIFICATION:

<b>Emergency Overvi</b>	iew
OSHA Hazards	
Combustible Liquid	l, Irritant.
<b>GHS</b> Classification	1
Flammable liquids (	(Category 4)
Skin irritation (Cate	egory 2)
Eye irritation (Cates	gory 2A)
Specific target organ	n toxicity - single exposure (Category 3)
GHS Label elemen	its, including precautionary statements
Pictogram	
Signal word	Warning
Hazard statement(	(s)
H303	Combustible liquid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary stat	ement(s)
P311	Avoid breathing/dust/fume/gas/mist/ vapors/spray.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
HMIS Classification	on de la constante de la const
Health hazard	2
Flammability	3
Physical hazards	2
NFPA Rating	
Health hazard	2
Fire	3

Reactivity Hazard	0			
Potential Health Effects				
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.			
Skin	May be harmful if absorbed through skin. Causes skin irritation.			
Eyes	Causes eye irritation.			
Ingestion	May be harmful if swallowed.			

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonym	Pentyl butyrate		
Formula	C9 H18 O2		
Molecular Weight	158.24 g/mol		
CAS-No	EC-No	Index-No.	Concentration
540-18-1	208-739-2		

## 4. FIRST-AID GUIDE:

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING GUIDE:

## Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

## **Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE GUIDE:

#### **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE:

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

## **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values.

## **Personal protective equipment:**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Eve protection**

Safety glasses with side-shields conforming to EN166.Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance Form LIQUID Color COLORLESS TO PALE YELLOW Safety data Melting point (°C) no data available Boiling point (°C) 179 Flash point (°F) Closed cup 140 Vapor pressure (mmHg@20°C) no data available Density @25 °C 0.863 Water solubility SLIGHT Vapor Density no data available Odor **AROMATIC, PEAR-LIKE** 

## **10. STABILITY AND REACTIVITY:**

Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to avoid
Strong oxidizing agents.
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **11. TOXICOLOGICAL INFORMATION:**

## Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable. possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Specific target organ toxicity - single exposure (Globally Harmonized System)** Inhalation - May cause respiratory irritation.

## **Potential health effects**

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **Additional Information**

RTECS: Not available.

## **12. DISPOSAL RECOMMENDATIONS:**

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## **Contaminated packaging**

Dispose of as unused product.

### **13. TRANSPORTATION INFORMATION:**

DOT (US) Not dangerous goods. IMDG Not dangerous goods. IATA Not dangerous goods.

## **14. REGULATORY INFORMATION:**

# **OSHA Hazards**

Combustible Liquid, Irritant. **SARA 302 Components** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard. **Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act. **Pennsylvania Right To Know Components** Pentyl Butyrate CAS-No. Revision Date 540-18-1

## New Jersey Right To Know Components

Pentyl Butyrate	CAS-No.	<b>Revision</b> Date
	540-18-1	

### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **15. OTHER INFORMATION:**

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.