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**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

**Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300**

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# **MATERIAL SAFETY DATA SHEETS**

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## **BUTYL ACRYLATE**

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### **SECTION 1 – PRODUCT INFORMATION**

BUTYL ACRYLATE

Product ID: NCO 526117

Common Chemical Name: Acrylic Acid, Butyl Ester

Synonyms: Butyl 2–Propenoate; 2–Propenoic Acid, Butyl Ester

Molecular Formula: C<sub>7</sub> H<sub>12</sub> O<sub>2</sub>

Chemical Family: Organic acid esters

Molecular Wt.: 128.2

### **SECTION 2 – INGREDIENTS**

Chemical Name: CAS Amount

Butyl Acrylate 141–32–2 99.5 %

ACGIH TLV TWA 2 PPM

Hydroquinone Monomethyl Ether ( ) 150–76–5 15.0 PPM  
(Inhibitor)

ACGIH TLV TWA 5 MG/CU. M

### **SECTION 3 – PHYSICAL PROPERTIES**

Color: Colorless

Form/Appearance: Clear Liquid

Odor: NOT AVAILABLE

Odor Intensity: Strong

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Typical Low/High U.O.M.  
Specific Gravity: 0.9  
pH: NOT AVAILABLE  
Typical Low/High Deg. @ Pressure  
Boiling Pt: 147.8 C 760 MM HG  
Freezing Pt: -65 C 1 ATMOSPHERES  
Decomp. Tmp: NOT AVAILABLE  
Solubility in Water Description: Soluble  
Typical Low/High U.O.M. @ Temperature  
Solubility: 0.2 PERCENT 20 C  
BUTYL ACRYLATE

### **SECTION 3 – PHYSICAL PROPERTIES (cont)**

Typical Low/High U.O.M. @ Temperature  
Vapor Pressure: 3.3 MM HG X 20 DEG. C XX  
Vapor Density (Air = 1): 4.4  
Evaporation Rate Std.: AIR  
Other Physical Properties:  
ODOR THRESHOLD: 0.1 PPB

### **SECTION 4 – FIRE AND EXPLOSION DATA**

Typical Low/High Deg. Method  
Flash Point: 40.6 C TAG CLOSED CUP  
Autoignition: 292 C NONE SPECIFIED  
Flam. Limits: 1.3 – 9.9 %  
Extinguishing Media:  
Use CO2 or dry chemical extinguishing media.  
Fire Fighting Procedures:  
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Water may be ineffective but should be used to keep exposed containers cool.  
Unusual Hazards: Vapors are heavier than air and flashback may occur. In advanced or massive fires, firefighting should be done from a safe distance or from a protected area.

### **SECTION 5 – HEALTH EFFECTS**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.  
Toxicology Test Data:  
Rat, 13 week inhalation study – NOEL: 21 PPM  
Vapor severe respiratory tract irritant  
Report: histopath exam of nasal mucosa – NOEL: 21 PPM  
TOX TEST RATING NOT FOUND  
Acute Overexposure Effects:  
Contact with the eyes may result in severe burns and possible loss of vision. Skin contact may result in burns. The liquid can be absorbed through the skin. Acute overexposure to butyl acrylate by inhalation may cause a burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Dermal exposure to the liquid has been known to cause skin irritation and sensitization in experimental animals. Liquid may be irritating to the eyes. Hydroquinone monomethylether can cause severe burns upon prolonged contact and may be absorbed in toxic amounts. Topical administration of 20% hydroquinone monomethylether produced leukoderma in experimental animals.

## **SECTION 5 – HEALTH EFFECTS (cont)**

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### Chronic Overexposure Effects:

5 of 6 rats died after exposure to 1000 ppm for 4 hours; however, no deaths occurred after exposure to saturated vapors for 30 minutes.

In studies with pregnant rats, inhalation of 135 ppm and 250 ppm n-butyl acrylate for 6 hrs/day for 9 days led to maternal toxicity or embryoletality. Prolonged inhalation exposures to high vapor concentrations have been known to produce mucous membrane irritation and severe respiratory tract irritation with associated pathological changes. High vapor concentrations of 546 ppm have been shown to produce mortality in the rats. Exposure may produce liver effects.

### First Aid Procedures – Skin:

Wash affected areas with water while removing contaminated clothing.

Get immediate medical attention. Launder contaminated clothing before reuse.

### First Aid Procedures – Eyes:

Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

### First Aid Procedures – Ingestion:

If swallowed, dilute with water. DO NOT INDUCE VOMITING. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

### First Aid Procedures – Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

### First Aid Procedures – Notes to Physicians:

None known.

### First Aid Procedures – Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Please refer to the effects of overexposure section for effects observed in animals.

### First Aid Procedures – Special Precautions:

None

## **SECTION 6 – REACTIVITY DATA**

Stability Data: Stable

Incompatibility: Strong oxidizers, aldehydes, ethers and azides.

Conditions/Hazards to Avoid:

Do not store in excess of 6 months with less than 10 % headspace above liquid.

Hazardous Decomposition/Polymerization:

Hazardous polymerization may occur. Avoid excessive heat, inhibitor loss, and contaminants, including moisture. Hazardous decomposition products are CO and CO<sub>2</sub>.

Corrosive Properties: Not corrosive to metal.

Oxidizer Properties: Not an oxidizer

Other Reactivity Data: None known.

## **SECTION 7 – PERSONAL PROTECTION**

Clothing: Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Respiration: If vapors or mists are generated, wear an approved NIOSH/MSHA organic vapor/mist respirator. At concentrations >250 ppm, use an air-supplied or self-contained breathing apparatus.

Ventilation: Use local exhaust to control to recommended P.E.L.

Explosion Proofing: None required.

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible.

### **SECTION 8 – SPILL–LEAK/ENVIRONMENTAL**

General:

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

Waste Disposal: Incinerate at a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal: Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

Environmental Toxicity Test Data:

Sediment or Soil Adsorption Isotherm –

High Mobility Class Rating

### **SECTION 9 – STORAGE AND HANDLING**

General: Avoid excessive heat, direct sunlight, inhibitor loss, and contaminants, including moisture. Maintain contact with atmosphere of 5–21% oxygen. Do not use inert atmosphere as blanket. Under these conditions, a storage stability of 1 year is expected at ambient temperatures.

### **SECTION 10 – REGULATORY INFORMATION**

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TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No. : D001

CERCLA: NO Reportable Qty.: (If YES)

The RCRA hazardous waste number D001 refers to this material's RCRA hazardous waste characteristic of ignitibility.

SARA 311: ACUTE HEALTH: YES FIRE: YES

CHRONIC HEALTH: YES REACTIVE: YES

BUTYL ACRYLATE

### **SECTION 10 – REGULATORY INFORMATION (cont)**

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: 141–32–2 NO

NAME: Butyl Acrylate

CAS: 150–76–5 NO

NAME: Hydroquinone Monomethyl Ether (Inhibitor)

Hazard Ratings:

Health: Fire: Reactivity: Special:

HMIS 3 2 2 NA

NFPA 2 2 2 NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

INTERNATIONAL REPORTING: EINECS (EUROPE) – YES

MITI (JAPAN) – YES

AUSTRALIA – YES

CANADA – YES

KOREA – YES

Subject to right-to-know regulations in these states: FL.,

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IL.,LA.,NJ.,RI.,MA.,PA.

## SECTION 11 – TRANSPORTATION INFORMATION

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DOT Proper Shipping Name: SEE BELOW

DOT Technical Name: SEE BELOW

DOT Primary Hazard Class: SEE BELOW

DOT Secondary Hazard Class: SEE BELOW

DOT Label Required: SEE BELOW

DOT Placard Required: SEE BELOW

DOT Poison Constituent: SEE BELOW

BASF Commodity Codes: NA NA UN/NA Code: NONE E/R Guide:

Bill of Lading Description:

BUTYLACRYLATE, 3, UN2348, PGIII

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### **SECTION 11 – Disclaimer**

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