

# MATERIAL SAFETY DATA SHEET

## Butyl Acrylate

### Section 1 - Chemical Product and Company Identification

|                   |                              |
|-------------------|------------------------------|
| <b>MSDS Name:</b> | <b>Butyl acrylate, 99+%</b>  |
| <b>Synonyms:</b>  | 2-Propenoic acid butyl ester |

|                                     |   |
|-------------------------------------|---|
| Company Identification: (INDIA)     | Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA                      |
| For information in the INDIA, call: | Tel: +91 - 22 - 2275 5555 / 6184 0000,<br>Fax: +91 - 22 - 2275 5556 / 6184 0001 |

### Section 2 - Composition, Information on Ingredients

| CAS#     | Chemical Name: | %    | EINECS#   |
|----------|----------------|------|-----------|
| 141-32-2 | Butyl acrylate | 99+% | 205-480-7 |

|  |                |
|--|----------------|
| <b>Hazard Symbols:</b>   | XI             |
|  |                |
| <b>Risk Phrases:</b>   | 10 36/37/38 43 |

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Flammable. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Light sensitive.*

#### Potential Health Effects

|                    |   |
|--------------------|---|
| <b>Eye:</b>        | Causes eye irritation. Lachrymator (substance which increases the flow of tears).                             |
| <b>Skin:</b>       | Causes skin irritation. May be harmful if absorbed through the skin. May cause sensitization by skin contact. |
| <b>Ingestion:</b>  | May cause irritation of the digestive tract. May be harmful if swallowed.                                     |
| <b>Inhalation:</b> | Causes respiratory tract irritation. May be harmful if inhaled.   |
| <b>Chronic:</b>    |   |

### Section 4 - First Aid Measures

|                    |   |
|--------------------|---|
| <b>Eyes:</b>       | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.                                     |
| <b>Skin:</b>       | Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  |
| <b>Ingestion:</b>  | Get medical aid. Wash mouth out with water.   |
| <b>Inhalation:</b> | Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. |
| <b>Notes to</b>    |   |

|   |   |
|---|---|
| <b>Physician:</b>                         |   |
| <b>Section 5 - Fire Fighting Measures</b> |   |
| <b>General Information:</b>               | As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Flammable liquid and vapor. |
| <b>Extinguishing Media:</b>               | Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.   |

### Section 6 - Accidental Release Measures

|                             |   |
|-----------------------------|---|
| <b>General Information:</b> | Use proper personal protective equipment as indicated in Section 8.   |
| <b>Spills/Leaks:</b>        | 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. Remove all sources of ignition. Use a spark-proof tool. |

### Section 7 - Handling and Storage

|                  |  |
|------------------|--|
| <b>Handling:</b> | Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges. |
| <b>Storage:</b>  | Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.  |

### Section 8 - Exposure Controls, Personal Protection

|                                      |   |
|--------------------------------------|---|
| <b>Engineering Controls:</b>         |   |
|                                      | Use adequate ventilation to keep airborne concentrations low.   |
| <b>Exposure Limits</b>               |   |
|                                      | CAS# 141-32-2:  |
|                                      | United Kingdom, WEL - TWA: 1 ppm TWA; 5 mg/m <sup>3</sup> TWA United Kingdom, WEL - STEL: 5 ppm STEL; 26 mg/m <sup>3</sup> STEL   |
|                                      | Belgium - TWA: 2 ppm VLE; 11 mg/m <sup>3</sup> VLE Belgium - STEL: 10 ppm VLE; 53 mg/m <sup>3</sup> VLE   |
|                                      | France - VME: 2 ppm VME; 11 mg/m <sup>3</sup> VME France - VLE: 10 ppm VLE; 53 mg/m <sup>3</sup> VLE  |
|                                      | Germany: 2 ppm TWA; 11 mg/m <sup>3</sup> TWA  |
|                                      | Malaysia: 2 ppm TWA; 10.48 mg/m <sup>3</sup> TWA  |
|                                      | Netherlands: 2 ppm MAC; 11 mg/m <sup>3</sup> MAC  |
|                                      | Russia: 10 mg/m <sup>3</sup> TWA (vapour)   |
|                                      | Spain: 2 ppm VLA-ED; 11 mg/m <sup>3</sup> VLA-ED Spain: 10 ppm VLA-EC; 53 mg/m <sup>3</sup> VLA-EC  |
| <b>Personal Protective Equipment</b> |   |
| <b>Eyes:</b>                         | Wear chemical splash goggles.   |
| <b>Skin:</b>                         | Wear appropriate protective gloves to prevent skin exposure.  |
| <b>Clothing:</b>                     | Wear appropriate protective clothing to prevent skin exposure.  |
| <b>Respirators:</b>                  | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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

|                                   |                                  |
|-----------------------------------|----------------------------------|
| <b>Physical State:</b>            | Clear liquid                     |
| <b>Color:</b>                     | APHA: 10 max                     |
| <b>Odor:</b>                      | characteristic odor              |
| <b>pH:</b>                        | Not available                    |
| <b>Vapor Pressure:</b>            | 5 mbar @ 20 deg C                |
| <b>Viscosity:</b>                 | 0.869 mPa.s @ 20 deg C           |
| <b>Boiling Point:</b>             | 145 deg C @ 760 mmHg ( 293.00°F) |
| <b>Freezing/Melting Point:</b>    | -64 deg C ( -83.20°F)            |
| <b>Autoignition Temperature:</b>  | 297 deg C ( 566.60 deg F)        |
| <b>Flash Point:</b>               | 39 deg C ( 102.20 deg F)         |
| <b>Explosion Limits: Lower:</b>   | 1.50 vol %                       |
| <b>Explosion Limits: Upper:</b>   | 7.80 vol %                       |
| <b>Decomposition Temperature:</b> | Not available                    |
| <b>Solubility in water:</b>       | 1.4 g/l                          |
| <b>Specific Gravity/Density:</b>  | .8940g/cm3                       |
| <b>Molecular Formula:</b>         | C7H12O2                          |
| <b>Molecular Weight:</b>          | 128.17                           |

## Section 10 - Stability and Reactivity

|   |  |
|---|--|
| <b>Chemical Stability:</b>                    | Not available  |
| <b>Conditions to Avoid:</b>                   | Incompatible materials, light, ignition sources, excess heat, temperatures above 30°C. |
| <b>Incompatibilities with Other Materials</b> | Strong oxidizing agents, strong acids, strong bases, peroxides, charcoal.              |
| <b>Hazardous Decomposition Products</b>       | Carbon monoxide, carbon dioxide.   |
| <b>Hazardous Polymerization</b>               | Will occur.  |

## Section 11 - Toxicological Information

|                         |  |
|-------------------------|--|
| <b>RTECS#:</b>          | CAS# 141-32-2: UD3150000   |
| <b>LD50/LC50:</b>       | RTECS: <b>CAS# 141-32-2</b> : Draize test, rabbit, eye: 50 mg Mild;<br>Draize test, rabbit, eye: 500 mg/24H Mild;<br>Inhalation, mouse: LC50 = 7800 mg/m3/2H;<br>Inhalation, rat: LC50 = 2730 ppm/4H; Oral, mouse: LD50 = 5880 mg/kg;<br>Oral, rat: LD50 = 900 mg/kg; Skin, rabbit: LD50 = 2 ml/kg;<br>Other: Skin, rabbit: 10 mg/24H mild Skin, rabbit: 500 mg mild |
| <b>Carcinogenicity:</b> | Butyl acrylate - IARC: Group 3 (not classifiable)  |
| <b>Other:</b>           | See actual entry in RTECS for complete information.  |

## Section 12 - Ecological Information

|                     |  |
|---------------------|--|
| <b>Ecotoxicity:</b> | Fish: Rainbow trout: LC50: 5.2 mg/l; 96H; .<br>Daphnia: EC50: 8.2 mg/l; 48H; .<br>Algae: IC50: 5.5 mg/l; 96H; .<br>Bacteria: Pseudomonas putida: EC50: 80 mg/l; 16H; |
| <b>Other:</b>       | Biodegradable. Log POW: 2.4  |

## Section 13 - Disposal Considerations

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

## Section 14 - Transport Information

|                       | IATA                        | IMO                         | RID/ADR                     |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Shipping Name:</b> | BUTYL ACRYLATES, STABILIZED | BUTYL ACRYLATES, STABILIZED | BUTYL ACRYLATES, STABILIZED |
| <b>Hazard Class:</b>  | 3                           | 3                           | 3                           |
| <b>UN Number:</b>     | 2348                        | 2348                        | 2348                        |
| <b>Packing Group:</b> | III                         | III                         | III                         |

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

#### Risk Phrases:

- R 10 Flammable.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 43 May cause sensitization by skin contact.

#### Safety Phrases:

- S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

- CAS# 141-32-2: 1

Canada

- CAS# 141-32-2 is listed on Canada's DSL List

#### US Federal

- TSCA
- CAS# 141-32-2 is listed on the TSCA Inventory.

## Section 16 - Other Information

**MSDS Creation Date:** July 25, 2015

**Revision #0 Date**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*