

## Safety Data Sheet

**Product No. 18035 n-Butyl Methacrylate, Stabilized (Component of Glycol Methacrylate (GMA), Kit)**

**Issue Date (08-22-13)**

**Review Date (08-31-17)**

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### Section 1: Product and Company Identification

**Product Name: n-Butyl Methacrylate, Stabilized (Component of Glycol Methacrylate (GMA), Kit)**

Synonym: 2-Methyl-2-Propenoic Acid Butyl Ester

**Company Name**

**Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477**

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

**CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day**

**CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day**

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### Section 2: Hazard Identification

GHS Pictograms:



Flammable

Irritant

GHS Categories:

GHS02: Flammable

GHS07: Irritant

**Signal Word: Warning**

**Hazard Statements:**

**H226 Flammable liquid and vapor.**

**H315 Causes skin irritation.**

**H319 Causes serious eye irritation.**

**H317 May cause an allergic skin reaction.**

**H335 May cause respiratory irritation.**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

Irritant: Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Flammable.

**Risk phrases:**

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

**Safety phrases:**

Keep out of the reach of children.

**Health Effects:**

NFPA Hazard Rating: Health: 1; Fire: 2; Reactivity: 0

HMIS® Hazard Rating: Health: 1; Fire: 2; Reactivity: 0  
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.

PBT: ND

vPvB: ND

#### Emergency overview:

Appearance: Liquid, Colorless

Immediate effects: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

#### Potential health effects

Primary Routes of entry: Eye and skin contact, inhalation.

Signs and Symptoms of Overexposure: ND

Eyes: Causes eye irritation.

Skin: Causes skin irritation. May cause sensitization by skin contact.

Ingestion: May cause gastrointestinal irritation.

Inhalation: Causes respiratory irritation.

Chronic Exposure: May cause an allergic skin reaction.

Chemical Listed As Carcinogen or Potential Carcinogen: No

See Toxicological Information (Section 11)

#### Potential environmental effects

See Ecological Information (Section 12)

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### Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
n-butyl methacrylate (97-88-1) EC No: 202-615-1 Index No: 607-033-00-5	~100	NE	NE	No	No	No

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### Section 4: First Aid Measures

#### If accidental overexposure is suspected

Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

Ingestion: If symptoms persist consult doctor.

#### Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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### Section 5: Fire Fighting Measures

Flash Point: 54 °C (129 °F) - closed cup

Flammable Limits: Upper explosion limit: 8 %(V) Lower explosion limit: 2 %(V)

Auto-ignition point: ND

Ignition temperature: 290 °C (554 °F)

Fire Extinguishing Media: CO2, extinguishing powder or water spray. Fight larger fires with water spray or

alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet.  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective gear.  
Unusual Fire and Explosion Hazards: Explosion hazard.  
Hazardous combustion products: Carbon oxides.  
DOT Class: Flammable liquid, N-butyl methacrylate, stabilized

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### **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

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### **Section 7: Handling and Storage**

Precautions to be taken in Handling and Storage: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep receptacle tightly sealed.

Storage temperature: Do not store above: 86 °F (30 °C)

Storage Pressure: ND

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### **Section 8: Exposure Controls / Personal Protection**

#### **Engineering Controls**

Ventilation required: Ensure adequate ventilation.

#### **Personal Protection Equipment**

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protective gloves: Chemical resistant gloves.

Skin protection: Appropriate protective clothing.

Eye protection: Tightly sealed goggles.

Additional clothing and/or equipment:

#### **Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

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### **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Clear, colorless liquid.

Odor (threshold): Ester-like

Specific Gravity (H<sub>2</sub>O=1): Density at 20 °C (68 °F): 0.9836 g/cm<sup>3</sup> (8.208 lbs/gal)

Vapor Pressure (mm Hg): 3 hPa (2 mm Hg)

Vapor Density (air=1): 0.9836 g/cm<sup>3</sup> (8.208 lbs/gal)

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate= 1) : <1

Boiling Point: 160 °C (320 °F)

Freezing point / melting point: -75 °C (-103 °F)

pH: ND

Solubility in Water: 3 g/l

Molecular Weight: 142.20

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## Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, sunlight, contamination and open flames.

Materials to Avoid (Incompatibility): Oxidizing agents, acids, alkalis, slightly reactive with moisture.

Hazardous Decomposition Products: Oxides of carbon

Hazardous Polymerization: Violent polymerization can be caused by heat, moisture, and oxidizers. Butyl methacrylate polymerizes much less readily than corresponding ordinary acrylates.

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## Section 11: Toxicological Information

Results of component toxicity test performed:

Oral LD50 22600 mg/kg (rat)

Dermal LD50 11300 mg/kg (rabbit)

Inhalative LC50/4 h 4910 mg/l (rat)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

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## Section 12: Ecological Information

Ecological Information: Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Chemical Fate Information: ND

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## Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

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## Section 14: Transportation Information

US DOT Information: Proper shipping name: n-Butyl methacrylate, stabilized

Hazard Class: 3

Packaging group: III

UN Number: UN2227

IATA: Proper shipping name: n-Butyl methacrylate, stabilized

Hazard Class: 3

Packing group: III

UN Number: UN2227

IMO: Proper shipping name: n-Butyl methacrylate, stabilized

Class: 3

UN Number: UN2227

Packing group: III

EMS: F-E, S-D

Marine Pollutant: No

Canadian TDG: n-Butyl methacrylate, stabilized

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## Section 15: Regulatory Information

### United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

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

SARA 313 Components: 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, Chronic Health Hazard

RCRA: Not listed.

TSCA: All components are listed on the TSCA public inventory.

CERCLA: Substance is not listed.

### **State Regulations**

California Proposition 65: Substance is not listed.

### **International Regulations**

Canada WHMIS: B-3 D-2B, F

Europe EINECS Numbers: n-butyl methacrylate (97-88-1) EC No: 202-615-1

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### **Section 16: Other Information**

Label Information: Flammable, Irritant

European Risk and Safety Phrases: Flammable. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Keep out of reach of children.

European symbols needed: F, Xi

Canadian WHMIS Symbols: B-3 D-2B, F

### **Abbreviations used in this document**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

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### **Disclaimer**

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.