

<b>MATERIAL IDENTIFICATION AND USE</b>  Material Name: JBC's Tinted Monomer  Synonyms:	<b>Safety Data Sheet</b>  	Supplier: JBC and Company Address: 10484 Ranch Road 965 Fredericksburg, TX 78624  Tel: 830-685-3700 Fax: 830-685-3703 email: info@jbcandcompany.com
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## SECTION 1: Identification

<b>Product identifier:</b>	<b>2003 - JBC's Tinted Monomer</b>
<b>Product number(s)</b>	A, BC, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S-Lt, S, T, U, V, W, X, Y, 13, Gold, 905, 906
<b>Supplier's details</b>	JBC and Company, 10484 Ranch Road 965, Fredericksburg, TX 78624
<b>Phone &amp; Emergency phone number:</b>	Phone: 830-685-3700      CHEMTRAC: 800-424-9300

## SECTION 2: Hazard identification

### Classification of the substance or mixture

#### GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Flammable liquids (chapter 2.6), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Sensitization, skin (chapter 3.4), Cat. 1B
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

### GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

**Danger**

#### Hazard statement(s)

H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

#### Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.

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P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P362+P364	Take off contaminated clothing and wash it before reuse.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P235+P410	Keep cool. Protect from sunlight
P501	Dispose of contents/container to ...

### Other hazards which do not result in classification

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

##### 1. METHYL METHACRYLATE

Concentration < 99 % (Weight)

EC no. 201-297-1

CAS no. 80-62-6

Index no. 607-035-00-6

- Flammable liquids (chapter 2.6), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Sensitization, skin (chapter 3.4), Cat. 1

H225

Highly flammable liquid and vapor

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H335

May cause respiratory irritation

##### 2. Ethylene glycol dimethacrylate crosslinker

Concentration < 0 - > 5 % (Weight)  
CAS no. 97-90-5

##### 3. Fragrance

Concentration < 0 - > 0.4 % (Weight)

##### 4. N,N-dimethyl-p-toluidine

Concentration < 0 - > 0.8 % (Weight)

EC no. 202-805-4

CAS no. 99-97-8

Index no. 612-056-00-9

##### 5. Proprietary Colorants

Concentration < 2 % (Weight)

### Trade secret statement (OSHA 1910.1200(i))

Exact percentages and colorant names have been altered to protect Trade Secret per OSHA 1910.1200(i)

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### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

General advice	First aider needs to protect himself. Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with product or by inhalation of its vapors. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	Remove to fresh air. If breathing is difficult, seek medical attention.
In case of skin contact	Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops or persists. Wash clothing before reuse.
In case of eye contact	Immediately flush eyes with plenty of water. Seek immediate medical attention.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Most important symptoms/effects, acute and delayed

Headache, confusion, skin sensitization, causes skin and eye irritation.

#### Indication of immediate medical attention and special treatment needed, if necessary

No data available.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Foam, dry chemical or carbon dioxide.

#### Specific hazards arising from the chemical

Carbon oxides may be released in cases of fire. Flash back possible over considerable distance. Container explosion may occur under fire conditions.

#### Special protective actions for fire-fighters

Keep personnel removed and upwind of fire. Full protective equipment, including self-contained breathing apparatus. Cool container with water spray. Fight fires from a distance. Heat may rupture containers. Vapors are uninhibited and may form polymers in vents or arresters, resulting in stoppage of vents.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

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 product from getting into drains/surface water/groundwater.

#### Methods and materials for containment and cleaning up

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment!  
Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

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### SECTION 7: Handling and storage

#### Precautions for safe handling

Safe handling advice - Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapor or mist. Use only with adequate ventilation. Container hazardous when empty. Follow all SDS/label precautions even after the container is emptied. Emptied container retains vapor and product residue. Residual vapors might explode on ignition; do not apply heat.

Advice on protection against fire and explosion - Keep away from sources of ignition --- NO Smoking. Take precautionary measures against static discharges. In the event of fire, cool the endangered containers with water. When heated above flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use only explosion-proof equipment.

#### Conditions for safe storage, including any incompatibilities

Keep in the original container at a temperature not exceeding 30 °C / 86 °F. Store in a cool, dry place. Keep container closed. Protect container from the action of light.

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### SECTION 8: Exposure controls/personal protection

#### Control parameters

#### CAS: 80-62-6

Methyl methacrylate

Cal/OSHA: 50 ppm, (ST) 100 ppm PEL inhalation; NIOSH: 100 ppm REL inhalation; OSHA: 410 mg/m3 PEL inhalation

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure.

#### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Face shield. Safety glasses (ANSI Z87.01 or approved equivalent).

#### Skin protection

Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Nitrile rubber gloves with a minimum thickness of 0.11 mm. Gloves must be inspected prior to use. Gloves should be replaced regularly, especially after extended contact with the product. In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of suitable chemical protection. In particular, this information does not substitute suitability tests by the end user.

#### Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

Appearance/form	Liquid
Odor	Ester-like
Odor threshold	0.05 - 0.34 ppm
pH	No data available.
Melting point/freezing point	-48 °C / -54 °F
Initial boiling point and boiling range	100.3 °C / 214 °F @ 760 mmHg
Flash point	10 °C / 51 °F
Evaporation rate	3,1 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	12.5 % / 2.1 %
Upper/lower explosive limits	2.1 % / 12.5 %
Vapor pressure	26 °C / 68 °F @ 40 mmHg
Vapor density	ca. 3.5
Relative density	No data available.
Solubility(ies)	1.6 % Ester in Water and 1.25 % Water in Ester
Partition coefficient: n-octanol/water	No data available.
Decomposition temperature	No data available.
Viscosity	0.53 mPa s @ 20 °C / 68 °F

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**SECTION 10: Stability and reactivity**

**Reactivity**

See Section 10.2 - Chemical stability

**Chemical stability**

This product is stable under normal storage conditions.

**Possibility of hazardous reactions**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. This product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

**Conditions to avoid**

This product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

**Incompatible materials**

Free radical initiators. Reducing agents. Tertiary amines. Heavy metals. Peroxides. Oxidizing agents. Mineral acids.

**Hazardous decomposition products**

None when used as directed.

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**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

METHYL METHACRYLATE

LD50 Oral - Rat - 7,872 mg/kg; LD50 Skin - Rabbit - > 5,000 mg/kg; LC50 Inhalation - Rat - 5,303.3 ppm - 4 hrs

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#### **Skin corrosion/irritation**

METHYL METHACRYLATE

Skin - Rabbit - Result: not irritating - slightly irritating

#### **Serious eye damage/irritation**

METHYL METHACRYLATE

Eye - Rabbit - Result: not irritating - slightly irritating

#### **Respiratory or skin sensitization**

METHYL METHACRYLATE

Skin - Mouse, LLNA (Local Lymph Node Assay) - Result: sensitizing; Skin - Human - Result: various types of allergic reactions have been observed including, but not limited to, headache, eye irritations and skin affections.

#### **Carcinogenicity**

Non-carcinogenic in inhalation and feeding studies carried out on rats, mice and dogs.

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, IARC, or OSHA.

#### **Reproductive toxicity**

No indications of toxic effects were observed in reproduction studies in animals.  
non-teratogenic, not embryotoxic

#### **Summary of evaluation of the CMR properties**

No

#### **STOT-single exposure**

respiratory tract, (irritation) Category 3 (UN-GHS)

#### **STOT-repeated exposure**

No evidence for hazardous properties

#### **Aspiration hazard**

METHYL METHACRYLATE

NOAEL Inhalation - Rat - 25 ppm - 2 Years - Findings: Damage to mucous membranes in the nose at 400 ppm

#### **Additional information**

Avoid contact with the skin and eyes and inhalation of the product vapors.

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## **SECTION 12: Ecological information**

#### **Toxicity**

METHYL METHACRYLATE

LC50 - Oncorhynchus mykiss (rainbow trout) - > 79 mg/l; NOEC - Danio rerio (zebra fish) - 9.4 mg/l

EC50 - Daphnia magna (water flea) - 69 mg/l - 48 hrs.; NOEC - Daphnia magna (water flea) - 25 ppm 37 mg/l - 21 days

EC3 cell proliferation inhibition test - Pseudomonas putida - 100 mg/l - 16 hrs.; NOEC - Selenastrum capricornutum - > 110 mg/l - 72 hrs.

EC50 - Selenastrum capricornutum - > 110 mg/l - 72 hrs.

#### **Persistence and degradability**

Readily biodegradable, according to appropriate OECD test. The substance photodegrades rapidly when exposed to air.

#### **Bioaccumulative potential**

Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow).

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#### Mobility in soil

Binding to the solid soil phase, sediment or clarification sludge is not expected. The substance evaporates gradually into the atmosphere from the surface of the water. If the substance does get into the environment, it tends to remain in the compartment it was discharged into.

#### Results of PBT and vPvB assessment

PBT: no  
vPvB: no

#### Other adverse effects

Prevent substance from entering soil, natural bodies of water and sewer systems.

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## SECTION 13: Disposal considerations

#### Disposal of the product

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. JBC and Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

#### Disposal of contaminated packaging

Empty containers must be handled with care due to product residue. DO NOT HEAT THE EMPTY CONTAINER.

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## SECTION 14: Transport information

#### DOT (US)

UN Number: 1247  
Class: 3  
Packing Group: II  
Proper Shipping Name: METHYL METHACRYLATE MONOMER, STABILIZED  
ERG: 129P  
Marine pollutant: No

#### IMDG

UN Number: 1247  
Class: 3  
Packing Group: II  
EMS Number: F-E, S-D  
Proper Shipping Name: METHYL METHACRYLATE MONOMER, STABILIZED

#### IATA

UN Number: 1247  
Class: 3  
Packing Group: II  
Proper Shipping Name: METHYL METHACRYLATE MONOMER, STABILIZED

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## SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

##### Massachusetts Right To Know Components

Chemical name: Methyl methacrylate  
CAS number: 80-62-6

##### New Jersey Right To Know Components

Common name: METHYL METHACRYLATE  
CAS number: 80-62-6

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## 2003 - JBC's Tinted Monomer

### Pennsylvania Right To Know Components

Chemical name: 2-Propenoic acid, 2-methyl-, methyl ester

CAS number: 80-62-6

### HMIS Rating

2003 - JBC's Tinted Monomer	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	2
PERSONAL PROTECTION	

### NFPA Rating



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## SECTION 16: Other information

**Prepared by:** JBC and Company in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**Revision Indicator:** New SDS

**Disclaimer:** The information contained herein is accurate to the best of our knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. JBC and Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.