Safety Data Sheet

# PS-18 C

**Issue Date:** May, 2012 **Revision Date:** November, 2019 **Version:** 2

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** PS 18C

**Other means of identification**

**SDS #** CIP-005

**UN/ID No** UN1133

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Adhesive.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Caseway Industrial Products, Inc.
3487 Highland Drive
Bay City, MI 48706
Ph: 989-391-9992
Fax: 989-391-9994

**Emergency Telephone Number**

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America) Contract # 106140
***Contact manufacturer for all non-emergency calls***

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear colorless liquid **Physical State** Liquid **Odor** Ester-like

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Liquids | Category 2 |

**Hazards Not Otherwise Classified (HNOC)**

May be harmful in contact with skin

**Signal Word**

**Danger**

**Hazard Statements**
**H302**: Harmful if swallowed
**H315**: Causes skin irritation
**H319**: Causes serious eye irritation
**H317**: May cause an allergic skin reaction
**H335**: May cause respiratory irritation.
**H336**: May cause drowsiness or dizziness
**H225**: Highly flammable liquid and vapor

**Precautionary Statements - Prevention**
**P201**: Obtain special instructions before use
**P202**: Do not handle until all safety precautions have been read and understood
**P210**: Keep away from heat/sparks/open flames/hot surfaces. — No smoking
**P233**: Keep container tightly closed
**P235**: Keep cool
**P240**: Ground/bond container and receiving equipment
**P241**: Use explosion-proof equipment
**P242**: Use only non-sparking tools
**P243**: Take precautionary measures against static discharge
**P261**: Avoid breathing dust/fume/gas/mist/vapors/spray
**P264**: Wash face, hands and any exposed skin thoroughly after handling
**P270**: Do not eat, drink or smoke when using this product
**P271**: Use only outdoors or in a well-ventilated area
**P272**: Contaminated work clothing should not be allowed out of the workplace
**P280**: Wear protective gloves/protective clothing/eye protection/face protection
**P281:** Use personal protective equipment as required

**Precautionary Statements - Response**
**P308**: If exposed or concerned: Get medical advice/attention
**P305+P351+P338**: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
**P337+P313**: If eye irritation persists: Get medical advice/attention.
**P333+P313**: If skin irritation or rash occurs: Get medical advice/attention
**P303+P361+P353**: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
**P363**: Wash contaminated clothing before reuse.
**P304+P340**: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
**P301+P312**: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
**P370+P378**: IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
**P405**: Store locked up
**P403+P233**: Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
**P501**: Dispose of contents/container to an approved waste disposal plant

**Other Hazards**
Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Methyl Methacrylate | 80-62-6 | 90-99 |
| Dimethylaniline | 121-69-7 | 1-10 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention immediately.

**Most important symptoms and effects**

**Symptoms** Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion or loss of coordination. May cause skin and eye irritation. Will cause gastrointestinal tract irritation. The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically. Can cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Foam, Dry chemical, Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** Water jet.

**Specific Hazards Arising from the Chemical**
Vapors may travel to source of ignition and flash back. Highly flammable liquid and vapor.

**Sensitivity to Static Discharge** Take precautionary measures against static discharge. Flammable mixtures of this product are readily ignited even by static discharge.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Remove all sources of ignition. The wet contaminated surface may be slippery.

**Environmental Precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).

**Methods for Clean-Up** Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. Wash spill area with a mild detergent.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Use only in well-ventilated areas. Keep containers closed when not in use. Keep cool.

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

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store between 16°-26°C (69°-79°F). Store locked up. Protect from damp. Store away from heat and incompatible materials.

**Incompatible Materials** Organic Peroxides, Reducing agent, Strong oxidizing agents. Tertiary amines. Heavy metals. Free-radical initiators. Mineral acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Methyl Methacrylate<br>80-62-6 | STEL: 100 ppm<br>TWA: 50 ppm | TWA: 100 ppm<br>TWA: 410 mg/m$^3$<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 410 mg/m$^3$ | IDLH: 1000 ppm<br>TWA: 100 ppm<br>TWA: 410 mg/m$^3$ |

| | | | |
|---|---|---|---|
| Dimethylaniline<br>121-69-7 | STEL: 10 ppm<br>TWA: 5 ppm<br>S* | TWA: 5 ppm<br>TWA: 25 mg/m$^3$<br>(vacated) TWA: 5 ppm<br>Dimethyl aniline<br>(vacated) TWA: 25 mg/m$^3$<br>Dimethyl aniline (vacated) TWA: 2 ppm<br>(vacated) TWA: 8 mg/m$^3$<br>(vacated) STEL: 10 ppm<br>Dimethyl aniline<br>(vacated) STEL: 50 mg/m$^3$<br>Dimethyl aniline<br>(vacated) S* Dimethyl aniline<br>(vacated) S*<br>S* | IDLH: 100 ppm<br>TWA: 5 ppm<br>TWA: 25 mg/m$^3$<br>STEL: 10 ppm<br>STEL: 50 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Good ventilation is required. Maintain eye wash fountain and quick-drench facilities in work area.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Splash goggles or safety glasses.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

**General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | | |
| **Appearance** | Clear colorless liquid | **Odor** | Ester-like |
| **Color** | Clear Colorless | **Odor Threshold** | Not determined |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | Not determined | |
| **Melting Point/Freezing Point** | -48.2 °C / -54.8 °F | |
| **Boiling Point/Boiling Range** | 100.3 °C / 212.5 °F | |
| **Flash Point** | 10 °C / 50 °F | Pensky-Martens Closed Cup (PMCC) |
| **Evaporation Rate** | 3.1 | (butyl acetate = 1) |
| **Flammability (Solid, Gas)** | Not determined | |
| **Upper Flammability Limits** | 12% | |
| **Lower Flammability Limit** | 2.1% @ 10.5°C / 33.8°F | |
| **Vapor Pressure** | 38.7 hPa (=mbar) | @ 20°C (68°F) |
| **Vapor Density** | 3.5 | (Air=1) |
| **Specific Gravity** | 0.94g/cm3 | @ 20°C (68°F) |
| **Water Solubility** | 15.9 g/l | @ 20°C (68°F) |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | 430°C / 806°F | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |

| | |
|---|---|
| **Dynamic Viscosity** | Not determined |
| **Explosive Properties** | Not determined |
| **Oxidizing Properties** | Not determined |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under normal conditions. Fill container by approximately 90% as oxygen (air) is required for stabilization. Large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.

**Possibility of Hazardous Reactions**
Prolonged exposure to elevated temperatures which can cause premature polymerization and release methyl methacrylate vapors.

**Hazardous Polymerization** Hazardous polymerization may occur.

**Conditions to Avoid**
Temperatures >35°C (95°). Heat, flames, ignition sources and incompatibles.

**Incompatible Materials**
Organic Peroxides, Reducing agent, Strong oxidizing agents. Tertiary amines. Heavy metals. Free-radical initiators. Mineral acids.

**Hazardous Decomposition Products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May cause an allergic skin reaction. May be harmful in contact with skin.

**Inhalation** May cause irritation to the mucous membranes and upper respiratory tract.

**Ingestion** Ingestion may cause irritation to mucous membranes. Harmful if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Methyl Methacrylate 80-62-6 | = 7872 mg/kg ( Rat ) | > 5 g/kg ( Rabbit ) | = 4632 ppm ( Rat ) 4 h = 400 ppm ( Rat ) 1 h |
| Dimethylaniline 121-69-7 | = 700 mg/kg ( Rat ) | = 1770 mg/kg ( Rabbit ) | > 5.1 mg/L ( Rat ) 4 h |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

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

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Methyl Methacrylate 80-62-6 | | Group 3 | | |
| Dimethylaniline 121-69-7 | | Group 3 | | |

**Legend**

***IARC (International Agency for Research on Cancer)***

*Group 3 IARC components are "not classifiable as human carcinogens"*

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Information**

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Methyl Methacrylate 80-62-6 | 170: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static | | 69: 48 h Daphnia magna mg/L EC50 |
| Dimethylaniline 121-69-7 | 340: 96 h Desmodesmus subspicatus mg/L EC50 | 52.6: 96 h Pimephales promelas mg/L LC50 flow-through 65.6: 96 h Pimephales promelas mg/L LC50 53.7: 96 h Poecilia reticulata mg/L LC50 semi-static 51.1: 96 h Brachydanio rerio mg/L LC50 semi-static 0.183 - 0.186: 96 h Brachydanio rerio mg/L LC50 | EC50 = 110 mg/L 24 h EC50 = 13.6 mg/L 5 min EC50 = 14.6 mg/L 30 min | 5: 48 h Daphnia magna mg/L EC50 |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| Methyl Methacrylate<br>80-62-6 | 0.7 |
| Dimethylaniline<br>121-69-7 | 2.278 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Methyl Methacrylate<br>80-62-6 | U162 | Included in waste stream:<br>F039 | | U162 |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Methyl Methacrylate<br>80-62-6 | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**
**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II
**Reportable Quantity (RQ)** 1000 lbs

**IATA**
**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II

**IMDG**
**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II

## 15. REGULATORY INFORMATION

### International Inventories

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl Methacrylate | Present | X | | Present | | Present | X | Present | X | X |
| Dimethylaniline | Present | X | | Present | | Present | X | Present | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

### US Federal Regulations

### CERCLA

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Methyl Methacrylate<br>80-62-6 | 1000 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Dimethylaniline<br>121-69-7 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Methyl Methacrylate - 80-62-6 | 80-62-6 | 90-99 | 1.0 |
| Dimethylaniline - 121-69-7 | 121-69-7 | 1-10 | 1.0 |

### CWA (Clean Water Act)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Methyl Methacrylate | 1000 lb | | | X |

### US State Regulations

### U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Methyl Methacrylate<br>80-62-6 | X | X | X |
| Dimethylaniline<br>121-69-7 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 2 | 3 | 2 | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical Hazards** | **Personal Protection** |
| | 2 | 3 | 2 | Not determined |

**Issue Date:** 15-May-2012
**Revision Date:** 14 november 2019
**Revision Note:** Added GHS codes

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**