MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Epcon Acrylic 7

Version # 01

Revision date 07-05-2016

Product Code A7

Product useConcrete anchoring adhesive.

Manufacturer/Supplier ITW Red Head

2171 Executive Drive, Suite 100

Addison, IL 60101 US

Telephone Number: (630) 350-0370 Contact Person: Andrew Rourke

Emergency CHEMTREC: (800) 424-9300

2. Hazards Identification

Physical state Liquid.

Appearance Paste.

Emergency overview DANGER!

Highly flammable. Will be easily ignited by heat, spark or flames.

Contains an organic peroxide and strong oxidizer. Contact with other materials may cause fire.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Heat may cause containers to explode.

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

central nervous system effects. Prolonged exposure may cause chronic effects.

OSHA regulatory status

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Irritating to eyes. Contact may cause irritation, redness, tearing, blurred vision and/or burns.

Skin Irritating to skin. May cause sensitization by skin contact. Contact may cause irritation, redness

and/or drying.

Inhalation Vapors may irritate throat and respiratory system and cause coughing. May cause central nervous

system effects.

Ingestion Irritating to mouth, throat, and stomach. Ingestion may cause vomiting, nausea, diarrhea or other

systemic effects.

Target organs Eyes. Skin. Respiratory system. Central nervous system. Heart and cardiovascular system. Liver.

Kidneys. Reproductive system.

Chronic effects Methyl methacrylate vapor has hypotensive properties which may cause cardiac arrest and other

cardiovascular effects. Possible reproductive hazard that may cause adverse reproductive effects based on animal data. May cause damage to the liver and kidneys. Frequent or prolonged contact

may defat and dry the skin, leading to discomfort and dermatitis.

Potential environmental effects The product contains a substance which is harmful to aquatic organisms.

3. Composition / Information on Ingredients

| Components | CAS# | Percent |
|---------------------|---------|----------|
| Methyl methacrylate | 80-62-6 | 10 - 90 |
| Benzoyl peroxide | 94-36-0 | 0.1 - 10 |
| Dibutyl phthalate | 84-74-2 | 0.1 - 5 |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If skin rash or an allergic skin

reaction develops, get medical attention. Wash contaminated clothing before reuse. Destroy or

thoroughly clean contaminated shoes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.

Ingestion Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content does not get into the lungs. Get medical attention immediately.

Notes to physician Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be

delayed.

General advice Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties Flammable by OSHA criteria. Can be ignited easily and burns vigorously.

Strong oxidizer. Contact with combustible material may cause fire. Organic peroxide. Heat may cause the containers to explode.

Extinguishing media

Suitable extinguishing

media

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire. Halogenated materials.

Protection of firefighters

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an

ember. Greatly increases the burning rate of combustible materials.

Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Containers should be cooled with water to prevent vapor pressure build up. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Special protective equipment

for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure

demand breathing apparatus, protective clothing and face mask.

Specific methods

Hazardous combustion

products

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide. Carbon Dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Local authorities should be advised if significant spillages

cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry

into waterways, sewers, basements or confined areas.

Methods for cleaning up

Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

This material and its container must be disposed of as hazardous waste. Should not be released into the environment. Prevent product from entering drains.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Wear personal protective equipment. Avoid breathing high vapor concentrations. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Take precautionary measures against static discharges. When using, do not eat, drink or smoke.

Storage

Keep away from heat, sparks and open flame. Keep container tightly closed in a cool, well-ventilated place. For maximum shelf life, store between 4.4°C (40°F) to 26.7°C (80°F). Do not store above 43.3°C (110°F). Do not store near combustible materials. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

| Benzoyl peroxide (94-36-0) TWA 5 mg/m3 | ACGIH | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|-----------|--|
| Dibuty phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) TWA 50 ppm U.S OSHA Type Value Benzoyl peroxide (94-36-0) PEL 5 mg/m3 Dibutyl phthalate (84-74-2) PEL 5 mg/m3 Methyl methacrylate (80-62-6) PEL 100 ppm Hollow the third of the third | Components | Туре | Value | |
| Methyl methacrylate (80-62-6) STEL TWA 100 ppm U.S OSHA Components Type Value Benzoyl peroxide (94-36-0) PEL 5 mg/m3 Dibutyl phthalate (84-74-2) PEL 5 mg/m3 Methyl methacrylate (80-62-6) PEL 100 ppm 410 mg/m3 Canada - Alberta Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) TWA 5 mg/m3 Methyl methacrylate (80-62-6) TWA 5 mg/m3 | Benzoyl peroxide (94-36-0) | TWA | 5 mg/m3 | |
| U.S OSHA Components Type Value Benzoyl peroxide (94-36-0) PEL 5 mg/m3 Dibutyl phthalate (84-74-2) PEL 100 ppm 410 mg/m3 Canada - Alberta Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (80-62-6) STEL 100 ppm 410 mg/m3 Canada - Alberta Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 TWA 205 mg/m3 TWA 205 mg/m3 TWA 205 mg/m3 TWA 50 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Dibutyl phthalate (84-74-2) | TWA | 5 mg/m3 | |
| Components Type Value | Methyl methacrylate (80-62-6) | STEL | 100 ppm | |
| Type Value | | TWA | 50 ppm | |
| PEL | U.S OSHA | | | |
| Dibutyl phthalate (84-74-2) | Components | Туре | Value | |
| Methyl methacrylate (80-62-6) PEL 100 ppm 410 mg/m3 Canada - Alberta Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm 410 mg/m3 TWA 205 mg/m3 50 ppm Canada - British Columbia Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Benzoyl peroxide (94-36-0) | PEL | 5 mg/m3 | |
| Add | Dibutyl phthalate (84-74-2) | PEL | 5 mg/m3 | |
| Canada - Alberta Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm 410 mg/m3 205 mg/m3 50 ppm 50 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Methyl methacrylate (80-62-6) | PEL | 100 ppm | |
| Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm 410 mg/m3 TWA 205 mg/m3 50 ppm 50 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | | | 410 mg/m3 | |
| Benzoyl peroxide (94-36-0) | Canada - Alberta | | | |
| Dibutyl phthalate (84-74-2) Methyl methacrylate (80-62-6) Methyl methacrylate (80-62-6) TWA TWA TWA TWA TWA TWA TWA TW | Components | Туре | Value | |
| Methyl methacrylate (80-62-6) Methyl methacrylate (80-62-6) STEL 100 ppm 410 mg/m3 TWA 205 mg/m3 50 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) Dibutyl phthalate (84-74-2) Methyl methacrylate (80-62-6) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 5 mg/m3 Methyl methacrylate (80-62-6) TWA 50 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Benzoyl peroxide (94-36-0) | TWA | 5 mg/m3 | |
| TWA 205 mg/m3 50 ppm | Dibutyl phthalate (84-74-2) | TWA | 5 mg/m3 | |
| TWA 205 mg/m3 50 ppm Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 50 ppm | Methyl methacrylate (80-62-6) | STEL | 100 ppm | |
| Canada - British Columbia Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | | | 410 mg/m3 | |
| Canada - British Columbia Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | | TWA | 205 mg/m3 | |
| Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | | | 50 ppm | |
| Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Canada - British Columbia | | | |
| Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm TWA 50 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Components | Type | Value | |
| Methyl methacrylate (80-62-6) STEL TWA 50 ppm Canada - Ontario Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Benzoyl peroxide (94-36-0) | TWA | 5 mg/m3 | |
| TWA 50 ppm Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Dibutyl phthalate (84-74-2) | TWA | 5 mg/m3 | |
| Canada - Ontario Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Methyl methacrylate (80-62-6) | STEL | 100 ppm | |
| Components Type Value Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | | TWA | 50 ppm | |
| Benzoyl peroxide (94-36-0) TWA 5 mg/m3 Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Canada - Ontario | | | |
| Dibutyl phthalate (84-74-2) TWA 5 mg/m3 Methyl methacrylate (80-62-6) STEL 100 ppm | Components | Туре | Value | |
| Methyl methacrylate (80-62-6) STEL 100 ppm | Benzoyl peroxide (94-36-0) | | 5 mg/m3 | |
| , , () | Dibutyl phthalate (84-74-2) | | 5 mg/m3 | |
| TWA 50 ppm | Methyl methacrylate (80-62-6) | STEL | 100 ppm | |
| | | TWA | 50 ppm | |

| Canada - | Quebec |
|----------|--------|
|----------|--------|

| Components | Туре | Value | |
|-------------------------------|------|-----------|--|
| Benzoyl peroxide (94-36-0) | TWA | 5 mg/m3 | |
| Dibutyl phthalate (84-74-2) | TWA | 5 mg/m3 | |
| Methyl methacrylate (80-62-6) | TWA | 50 ppm | |
| • • • • • | | 205 mg/m3 | |
| Mexico | | | |
| Components | Туре | Value | |
| Benzoyl peroxide (94-36-0) | TWA | 5 mg/m3 | |
| Dibutyl phthalate (84-74-2) | STEL | 10 mg/m3 | |
| , | TWA | 5 mg/m3 | |
| Methyl methacrylate (80-62-6) | STEL | 125 ppm | |
| , , , , , | | 510 mg/m3 | |
| | TWA | 410 mg/m3 | |
| | | | |

Engineering controlsUse explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or

other engineering controls to control airborne levels below recommended exposure limits.

100 ppm

Personal protective equipment

considerations

Eye / face protection Wear approved safety goggles.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact glove manufacturer for specific information.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are

exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene Avoid contact with eyes. Avoid contact with skin. Provide eyewash station and safety shower.

When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and

safety practice.

9. Physical & Chemical Properties

AppearancePaste.ColorBeige/Gray.OdorPungent.Odor thresholdNot available.

Physical state Liquid.

Form Liquid. Paste.
pH Not available.
Melting point Not available.
Freezing point Not available.

Boiling point> 213 °F (> 100.6 °C)Flash point64 °F (17.8 °C)Evaporation rateNot available.FlammabilityNot available.

Flammability limits in air, upper, 12.5 %

% by volume

Flammability limits in air, lower, 2.1 %

% by volume

Vapor pressure Not available.

Vapor density > 1

Specific gravity1.6 (25°C)Solubility (water)InsolublePartition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents. Reducing agents. Strong acids. Combustible material. Polymerization

initiators.

Hazardous decomposition

products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

Will not occur at normal temperatures, however, exposure to elevated temperatures may cause

hazardous polymerization.

11. Toxicological Information

Toxicological data

Components Test Results

Methyl methacrylate (80-62-6) Acute Inhalation LC50 Mouse: 18.5 mg/l 2 Hours

Acute Inhalation LC50 Rat: 3750 mg/l 8 Hours

Acute Oral LD50 Rabbit: 6000 mg/kg Acute Oral LD50 Rat: 7800 mg/kg Acute Other LD50 Dog: 4500 mg/kg Acute Other LD50 Mouse: 1000 mg/kg Acute

Other LD50 Rat: 1328 mg/kg Acute Dermal LD50 Rabbit: 4200 mg/kg

Acute Inhalation LC50 Rat: 15.68 mg/l 4 Hours

Acute Oral LD50 Rat: 8000 mg/kg Acute Oral LD50 Rat: 7710 mg/kg

Acute Other LD50 Mouse: 206 - 242 mg/kg

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

Sensitization May cause an allergic skin reaction.

ACGIH Sensitizer

Dibutyl phthalate (84-74-2)

Benzoyl peroxide (94-36-0)

Methyl methacrylate (CAS 80-62-6) Sensitiser.

Chronic effects Prolonged exposure may cause chronic effects. May cause damage to the liver and kidneys.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Benzoyl peroxide (CAS 94-36-0)

A4 Not classifiable as a human carcinogen.

Methyl methacrylate (CAS 80-62-6)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzoyl peroxide (CAS 94-36-0)

3 Not classifiable as to carcinogenicity to humans.

Methyl methacrylate (CAS 80-62-6)

3 Not classifiable as to carcinogenicity to humans.

EpidemiologyThis product is not reported to cause epidemiological effects in humans. **Mutagenicity**This product is not reported to cause mutagenic effects in humans.

Neurological effects Methyl methacrylate vapor has hypotensive properties which may cause cardiac arrest and other

cardiovascular effects.

Reproductive effects

Possible reproductive hazard that may cause adverse reproductive effects based on animal data.

Teratogenicity

Components in this product have been shown to cause teratogenic effects in laboratory animals.

12. Ecological Information

Ecotoxicological data

Components Test Results

Methyl methacrylate (80-62-6) LC50 Fathead minnow (Pimephales promelas): 125.5 - 190.7

mg/l 96 hours

Dibutyl phthalate (84-74-2) EC50 Water flea (Daphnia magna): 2.99 mg/l 48 hours

LC50 Yellow perch (Perca flavescens): 0.28 - 0.44 mg/l 96

hours

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Persistence and degradability

Bioaccumulation / Accumulation

No data available.

Partition coefficient (n-octanol/water)

Not available.

Not available.

Mobility in environmental

media

No data available.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

Disposal instructionsDispose of contents/container in accordance with local/regional/national/international regulations.

This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Do not contaminate ponds,

waterways or ditches with chemical or used container.

14. Transport Information

Product Specific Note: This product meets the limited quantities exception requirements for the below listed

transportation agencies. Under DOT and TDG regulations, this product may be reclassified as a Consumer Commodity (ORM-D). Please see the specific regulations for the shipping and

packaging requirements.

DOT

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class ORM-D Subsidiary hazard class None Labels required None

Additional information:

Packaging exceptions156, 306Packaging non bulk156, 306Packaging bulkNone

IATA

Basic shipping requirements:
UN number 3

UN number 3108
Proper shipping name Organic peroxide type E, solid

Hazard class 5.2

IMDG

Basic shipping requirements:

UN number 3108

Proper shipping name ORGANIC PEROXIDE TYPE E, SOLID

Hazard class 5.2

Environmental hazards

Marine pollutant No EmS No. F-J, S-R

TDG

Basic shipping requirements:

Proper shipping name Consumer commodity

Hazard class ORM-D
Subsidiary hazard class None
Labels required None

Additional information:

Packaging exceptions156, 306Packaging non bulk156, 306Packaging bulkNone





15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Benzoyl peroxide (CAS 94-36-0) 1.0 % Dibutyl phthalate (CAS 84-74-2) 1.0 % Methyl methacrylate (CAS 80-62-6) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Benzoyl peroxide (CAS 94-36-0)

Dibutyl phthalate (CAS 84-74-2)

Methyl methacrylate (CAS 80-62-6)

Listed.

Listed.

CERCLA (Superfund) reportable quantity (lbs)

Methyl methacrylate 1000 Dibutyl phthalate 10

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

No

Drug Enforcement Agency

(DEA)

Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable/Combustible

C - Oxidizing

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

F - Reactive

WHMIS labeling









Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|------------------------------------------------------------|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |

Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) Nο Japan Inventory of Existing and New Chemical Substances (ENCS) Yes

Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Benzoyl peroxide (CAS 94-36-0) Listed Dibutyl phthalate (CAS 84-74-2) Listed. Methyl methacrylate (CAS 80-62-6) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Dibutyl phthalate (CAS 84-74-2) Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Dibutyl phthalate (CAS 84-74-2) Listed: December 2, 2005 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Dibutyl phthalate (CAS 84-74-2) Listed: December 2, 2005 Female reproductive toxin.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Dibutyl phthalate (CAS 84-74-2) Listed: December 2, 2005 Male reproductive toxin.

US - Massachusetts RTK - Substance: Listed substance

Benzoyl peroxide (CAS 94-36-0) Listed. Dibutyl phthalate (CAS 84-74-2) Listed. Methyl methacrylate (CAS 80-62-6) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Benzovl peroxide (CAS 94-36-0) 500 LBS Dibutyl phthalate (CAS 84-74-2) 500 LBS 500 LBS Methyl methacrylate (CAS 80-62-6)

US - New Jersey RTK - Substances: Listed substance

Benzoyl peroxide (CAS 94-36-0) Listed. Dibutyl phthalate (CAS 84-74-2) Listed. Methyl methacrylate (CAS 80-62-6) Listed. US - Pennsylvania RTK - Hazardous Substances: Listed substance Benzoyl peroxide (CAS 94-36-0) Listed.

Dibutyl phthalate (CAS 84-74-2) Listed. Methyl methacrylate (CAS 80-62-6) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2* Flammability: 3

Physical hazard: 1

NFPA ratings Health: 2

> Flammability: 3 Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

Issue date 08-19-2013