

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:



1. Identification

Product Name: Quantum Cartridge w/B-25
Product identifier: 100491
Relevant identified uses of the substance or mixture and uses advised against: Hardener/ Mixture
Polymerization initiator

Other means of identification

Chemical Manufacturer / Importer / Distributor: ITW Evercoat
a division of Illinois Tool Works Inc.
6600 Cornell Road
Cincinnati, OH 45242
513-489-7600

Emergency telephone number: CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard Symbols:



GHS Classification: Skin Sensitisation Category 1
Serious Eye Damage/Eye Irritation Category 2A

GHS Signal Word: Warning

GHS Hazard Statements: May cause an allergic skin reaction.
Causes serious eye irritation.

GHS Precautionary Statements:

Safety Precautions: Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

Disposal: If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

Hazards not otherwise classified: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
May cause dermatitis, asthmatic effects, testicular atrophy.

3. Composition/information on ingredients

Chemical Component:	CAS number and other unique identifiers	% (or range) of ingredient
Benzoyl Peroxide	94-36-0	10 - 30
Oxirane, mono derivatives	68609-97-2	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Eye Contact: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush eyes gently with water for at least 15 minutes, lifting upper & lower eye lids. Seek immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and continue flushing with water. Wash affected area thoroughly with soap and water. Seek medical advice if symptoms persist Wash clothing before reuse.

Inhalation: This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure. If symptoms develop, immediately move individual away from exposure and into fresh air. Get medical attention immediately. Keep the victim warm and quiet. If the victim has stopped breathing open airway, loosen collar and belt, and administer artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. If breathing becomes labored or other symptoms develop, seek medical attention at once.

Ingestion: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Immediate medical attention and special treatment needed,: No additional first aid information available

5. Fire-fighting measures

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Regular foam Carbon dioxide Dry chemical

Unsuitable extinguishing media: No data available

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Styrene oxide, Phthalic anhydride, Hydrocarbons

Special protective equipment and precautions for fire-fighters: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

Wear a self contained breathing apparatus (NIOSH approved) with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Material is easily ignited if allowed to dry.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Methods and material for containment and cleaning up:

No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section VIII of this MSDS.

No special spill clean-up considerations. Collect and discard in regular trash. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Activate available exhaust ventilation equipment in the immediate spill area.

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

All personnel in the area should be protected as in Section 8. Avoid breathing vapors. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Spilled material not immediately cleaned up may increase the fire hazard due to evaporation of water away from the benzoyl peroxide. Spilled material not cleaned up immediately should be wetted with water prior to transfer into disposal container.

7. Handling and storage

Precautions for safe handling: No special handling instructions due to toxicity. All hazard precautions given in the data sheet must be observed. Do not get in eyes, on skin and clothing Wash hands before eating Use with adequate ventilation Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not take internally. Keep container closed when not in use. Keep out of the reach of children.

Conditions for safe storage: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Store in a cool dry place For maximum product quality, avoid prolonged storage at temperatures above 75 °F (25 °C). Keep away from heat, sparks, and flame Store in a tightly closed container Avoid contact with incompatible materials.

Materials to Avoid/Chemical Incompatibility:: Peroxides Strong acids Strong oxidizing agents Polymerization catalysts Dimethylaniline Cobalt napthenate and other promoters, Accelerators Reducing agents Hot materials

8. Exposure controls/personal protection

Limits:

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Benzoyl Peroxide	5 mg/m ³	5 mg/m ³	No data available

Appropriate engineering controls.: No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use. General or local ventilation or isolation may prove adequate to keep airborne exposures below exposure limits. Explosion proof exhaust ventilation should be used.

Eye Protection: No special requirements under normal industrial use. Splash proof chemical goggles are recommended to protect against the splash of product.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

	exposed areas with mild soap and water before eating, drinking, and when leaving work. Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots
Respiratory Protection:	No respiratory protection required under normal conditions of use. Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.
Other Protective Equipment:	Splash proof chemical goggles are recommended to protect against the splash of product. Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots
General Hygiene Conditions:	All hazard precautions given in the data sheet must be observed. Do not get in eyes, on skin and clothing Wash hands before eating Use with adequate ventilation Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Do not take internally. Keep container closed when not in use. Keep out of the reach of children.

9. Physical and chemical properties

Appearance (physical state):	Paste
Color:	Blue
Odor:	Aromatic Ester-like
Odor threshold:	No data available
pH:	No data available
Melting Point/Freezing Point (°C):	No data available
Initial Boiling Point and Boiling Range (°C):	145
Flash Point (°C):	NDA
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper Flammable/Explosive Limit:	Not applicable
Lower Flammable/Explosive Limit:	Not applicable
Vapor Pressure:	< 1 MMHG@20C/68F 17.5 MMHG@20C/68F
Vapor Density:	Heavier than air. Vapors that evolve from this product will tend to settle and accumulate near the floor.
Relative Density:	0.83
Solubility(ies):	Insoluble Negligible; 0-1%
Partition coefficient: n-octanol/water:	No data available
Auto-ignition Temperature (°C):	80 °C
Decomposition Temperature::	No data available
Viscosity:	No data available

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

VOC (as packaged-less exempts and water)	1.17 or 140
VHAP Content by weight – as packaged	17

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under normal conditions. unless exposed to heat,
Conditions to avoid:	None known. .
Incompatible materials:	Peroxides Strong acids Strong oxidizing agents Polymerization catalysts Dimethylaniline Cobalt napthenate and other promoters, Accelerators Reducing agents Hot materials
Hazardous decomposition products:	Carbon dioxide Carbon monoxide Styrene oxide Phthalic anhydride Hydrocarbons Flammable products Benzoic acid Benzene Terphenyls Biphenyls

11. Toxicological information

Likely routes of exposure (inhalation, ingestion, skin and eye contact):	Ingestion, Skin contact, Eye contact, Absorption
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Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	No hazard in normal industrial use. Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache and dizziness. Airborne overexposure well above the PEL may result additionally in eye irritation, headache, chemical bronchitis, asthma-like findings or pulmonary edema. No hazard in normal industrial use.
Skin Contact:	No hazard in normal industrial use.
Skin Absorption:	Causes skin irritation. Contact may cause irritation and possible dermatitis or sensitization. Symptoms may include redness, burning, drying and cracking of skin, and skin burns Contact with skin can cause irritation, (minor itching, burning and /or redness), Dermatitis, Defatting may be readily absorbed through the skin.
Eye Contact:	No hazard in normal industrial use. Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.
Ingestion Irritation:	No hazard in normal industrial use. Causes gastrointestinal tract irritation, nausea, vomiting, diarrhea and possible ulcerations to mucous membranes. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Harmful if swallowed. Human systemic effects by ingestion: changes in structure or function of esophagus, nausea, or vomiting, and other gastrointestinal effects.

Safety Data Sheet

Product Name: Quantum Cartridge w/B-25

Product identifier: 100491

Revision Date: 12-14-2015

Replaces:

Long-Term (Chronic) Health Effects:

Carcinogenicity: None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA. The International Agency for Research on Cancer (IARC) has classified styrene as a group 2B carcinogen (possibly carcinogenic to humans).

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, no hazard in normal industrial use.

Skin Contact: Unlikely to cause irritation even on repeated contact.

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
No data available			

Has the chemical been classified as a Carcinogen by NTP, IARC or OSHA.

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
No data available			

12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): This material is not expected to be harmful to the ecology. Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits. This material is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

Persistence and degradability: No data available

Mobility in soil: No data available

Other adverse effects (such as hazardous to the ozone layer): No data available

Données sur l'écotoxicité

Chemical Component	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
No data available			

Safety Data Sheet

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13. Disposal considerations

Description of waste residues: Spent or discarded material is a hazardous waste.
Safe Handling of Waste: This material as supplied, if discarded, would be not be regulated as a hazardous waste under RCRA (40 CFR 261).
Waste treatment methods (including packaging): Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal Code(s): D001

14. Transport information

UN number: UN3108
UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Transport hazard class(es): 5.2
Packing group: No data available

The shipper is responsible for following all applicable regulations. The transportation classification provided is based on ITW Evercoat original packaging, which is suitable for domestic ground transport only.

15. Regulatory information

Statut TSCA: The intentional ingredients of this product are listed.

Regulated Components:

Chemical Component	CAS number and other unique identifiers	CERCLA	SARA EHS	SARA 313	California Prop 65
Benzoyl Peroxide	94-36-0	N	N	Y	N

16. Other information, including date of preparation or last revision.

Revision Date: 12-14-2015
Revision Number: 10

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