

## Safety Data Sheet (SDS) for Carbon Epoxy, Part A

According to ISO 11014:2010

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier:

**Identification as on the label/Trade name:** Carbon Epoxy, Part A

**Additional information:** Catalog number 7335

#### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Graphite filled one component epoxy system

**Uses advised against:** Not known.

#### Details of the supplier of the Safety Data Sheet:

World Precision Instruments Inc  
175 Sarasota Center Blvd  
Sarasota, Florida  
34240

#### Emergency telephone numbers:

+1-941-371-1003

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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substances or mixture:

**The mixture is classified according to:** Regulation EC 1272/2008 [EU-GHS/CLP]

#### **GHS Pictograms**



**GHS07**

#### **Hazard classes/Hazard categories:**

GHS07 - Irritant

Skin Irrit. 2

Eye Irrit. 2A

STOT, SE 3

H315: Causes skin irritation

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

For full text of H-Statements see Section 16.

#### The most important adverse effects:

**The most important adverse physiochemical effects:** None

**The most important adverse human health effects:** Irritation

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### Label elements:

#### **Hazard pictograms:**



GHS07

#### **Signal Words:** WARNING

**Hazard Statements:** H315-Causes skin irritation; H319-Causes serious eye irritation; H336-May cause drowsiness or dizziness

#### **Precautionary Statements:**

P210 - Keep away from heat, sparks, open flames, hot surfaces – no smoking

P233 – Keep container tightly closed.

P242 – Take precautionary measures against static discharge.

P261 - Avoid breathing dust/fumes/vapour/mist/spray.

P264 – Wash thoroughly after handling.

P271 – Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment(particularly water).

P280 – Wear protective gloves, eye protection, and face protection.

P303+P361 – If on skin(or hair): Take off immediately all contaminated clothing.

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell.

P333+P313 – If skin irritation occurs: Get medical attention.

P370+P378 – In case of fire: Use water fog, carbon dioxide, or a dry chemical to extinguish.

P403+P233+P235 – Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P501-Dispose of contents/container to comply with local, state, and federal regulations.

**Special labelling of certain mixtures:** None known.

#### **Other hazards:**

Ingestion: Low single dose oral toxicity; LD50(Rat) >2000 mg/Kg

Eye Contact: Minor transient irritation.

Skin Contact: Minor to no irritation. May be a weak skin sensitizer in susceptible individuals.

Skin Absorption: Not absorbed in toxic amounts.

Inhalation: Not likely to be a problem. No guide for control known.

Effects of Overexposure: Irritation, Sensitization, Dermatitis.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

#### Ingredients:

Name	Product Identifier	%	GHS-US classification
Graphite	(CAS #) 7782-42-5	40-50%	Not Classified
Methyl Ethyl Ketone	(CAS #) 78-93-3	25-35%	Flam. Liq.-2, H225 Eye Irrit. -2, H319 STOT SE.-3, H336
Epoxy Admixture	Proprietary	15-35	Not Classified

Occupational exposure limits, if available listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: FIRST-AID MEASURES

#### Description of first aid measures:

**Inhalation:** Remove to fresh air; if breathing is difficult, give oxygen.

**Ingestion:** If conscious, give water, induce vomiting. Get medical attention immediately.

**Skin Contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye Contact:** Flush eyes with warm water for at least 15 minutes; see physician.

#### Most important symptoms and effects, both acute and delayed:

Not expected to present a significant hazard under anticipated conditions of normal use.

**Indication of any immediate medical attention and special treatment needed:** Note to physician-no specific antidote known, treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguisher media:

**Flash Point:** Not applicable

**Flammable Limits(Limits in Air):** LFL: None UFL: None

**Suitable extinguisher media:** Water fog, carbon dioxide, dry chemical

**Unsuitable extinguishing media:** Do not use a heavy water stream.

**Special hazards arising from the mixture:** Decomposition and combustion products may be toxic.

**Advice for fire-fighters:** Exercise caution when fighting any chemical fire.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, use self-contained breathing apparatus.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**For emergency responders:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Notify authorities if material enters sewers or public waters. Avoid release to the environment.

#### Methods for containment and cleaning up:

**For spills:** Use appropriate equipment. Sweep up and hold for proper disposal using an inert absorbent.

#### Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**Additional information:** None known.

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### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling:

**Protective measures:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

**Advice on general occupational hygiene:** Do not smoke. Do not eat drink or smoke when handling this product.

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

Store in a cool place. Keep container tightly closed when not in use and away from direct sunlight.

Storage temperature: 0°C (32°F) to 32°C (89.6 °F)

**Incompatible products:** None known

**Incompatible materials:** None known

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### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Control parameters:

**Occupational exposure limits:** No data available.

**Biological exposure indices (BEI):** No data available.

**Additional exposure limits under the conditions of use:** No data available.

#### Exposure control:

**Appropriate engineering controls:** Ensure adequate ventilation; local exhaust recommended.

#### Individual protection measures, such as personal protective equipment:

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**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear splash-proof chemical goggles.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include: Butyl rubber and barrier cream.

**Body protection:** Not necessary under normal use.

**Respiratory protection:** If discomfort is experienced, use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

**Environmental exposure controls:** None required.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Appearance (form):** Semi-solid paste.

**Color:** Black

**Odor:** Slightly sweet

**Odor threshold:** Not known.

**pH (concentration):** Not known.

**Melting point/range (°C):** Not known.

**Boiling point/range (°C):** Not known.

**Flash point (°C):** Not known.

**Evaporation rate:** ~29%.

**Flammability (solid, gas):** Not known.

**Ignition temperature (°C):** Not known.

**Upper/lower flammability/explosive limits:** Not known.

**Vapor pressure (20 °C):** Not known.

**Vapor density:** Not known.

**Relative density (25 °C):** 2.8.

**Water solubility (g/L) at 20 °C:** None

**n-Octanol/Water partition coefficient:** Not known.

**Auto-ignition temperature:** Not known.

**Decomposition temperature:** Not known.

**Viscosity, dynamic (mPa s):** Not known.

#### Physical hazards:

None.

#### Other information:

**Fat solubility (solvent-oil to be specified):** Not known.

**Bulk density:** Not known.

**Dissociation constant in water (pKa):** Not known.

**Oxidation-reduction potential:** Not known.

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability:** Stable under recommended conditions of storage. Unstable on exposure to heat.

**Possibility of hazardous reactions:** Hazardous polymerization is not expected to occur.

**Conditions to avoid:** High temperatures

**Incompatible materials:** Strong acids, strong bases.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Toxicokinetics, metabolism and distribution:

**Non-human toxicological data:** No data available.

**Method:** No data available.

**Dosage:** No data available.

**Routes of administration:** No data available.

**Results:** No data available.

**Absorption:** No data available.

**Distribution:** No data available.

**Metabolism:** No data available.

**Excretion:** No data available.

#### Information on toxicological effects:

Hazardous Components	LD50s and LC50s	Immediate and Delayed Health Effects
Graphite	None	Lung
Methyl ethyl ketone	Oral LD50(RAT) = 2300-3500 mg/kg Oral LD50(RAT) = 4500-6800 mg/kg Dermal LD50(RABBIT) = >8000 mg/kg Inhalation LC50(RAT, 4h) = 11700 ppm	Irritant, central nervous system
Epoxy Admixture	None Established	None Established

**Skin corrosion/irritation:** No data available.

**Serious eye damage/irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** Not data available.

**Reproductive toxicity:** No data available.

**STOT-single exposure:** No data available.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** No data available

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**Mobility in soil:** No data available.

**Results of PBT& vPvB assessment:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Dispose of in accordance with municipal, provincial and national regulations.

**Product/packaging disposal:** Burn in adequate incinerator or bury in approved landfill.

### SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	Not required	Not required	1193
UN Proper shipping name:	Not required	Not required	Ethyl methyl ketone
Transport hazard class:	Not required	Not required	3
Packaging group:	Not required	Not required	II
Marine pollutant:	Not required	Not required	No
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code:	Not required	Not required	Not required

### SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation for the mixture:

**Relevant information regarding authorization:** SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200

EPA SARA Title III Section 313(40 CFR 372): Toxic Chemicals present in quantities greater than the "de minimis" level are: None

TSCA: All ingredients in this product are on the Toxic Substances Control Act (TSCA) inventory or are not required to be listed.

No ingredient in this product is known to be carcinogenic.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]; Europe EINECS Numbers: Methyl ethyl ketone (78-93-3): 201-159-0, Graphite(7782-42-5): 231-955-3

**Other National regulations:** Ingredients listed on the New Jersey "RIGHT TO KNOW: MEK: CAS#78-93-3 Substance # 1258.

**Chemical Safety Assessment carried out?** No.

### SECTION 16: OTHER INFORMATION

**Indication of changes:** GHS aligned.

#### **Relevant classification and H statements (number and full text):**

Skin Irrit. 2	Skin Irritation (dermal), Category 2
Eye Irrit. 2A	Serious Eye Irritation, Category 2A

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STOT, SE 3	Specific Target Organ Toxicity, Category 3(only narcotic effects and respiratory tract irritation)
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

**Further information:** WARNING! CAUSES IRRITATION. Avoid contact with eyes, skin or clothing. Avoid breathing vapour, mist or spray. Use with good ventilation. Wash after handling, and before eating, drinking or smoking. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.