

# MATERIAL SAFETY DATA SHEET

PROD #: 1800  
MSDS DATE: 4/24/02

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## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: FLEXIBLE BUMPER COAT (BLACK)  
IES PART NUMBER: 1800  
MANUFACTURER: INTERNATIONAL EPOXIES & SEALERS  
ADDRESS: 30241 COMMERCE DRIVE  
SAN ANTONIO, FL 33576  
24 HOUR EMERGENCY PHONE (INFOTRAC) (800) 535-5053  
INFORMATION PHONE: (800) 451-7206  
DATE PREPARED: APRIL 24, 2002

**SECTION 1 NOTES:** This material safety data sheet complies with OSHA'S Hazard Communication Standard, 1910.1200. If any item is not applicable (N/A) or no information is available (N/I), the space is marked to indicate that.

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

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INGREDIENT:	WT. PERCENT			OCCUPATIONAL EXPOSURE LIMITS			
	CAS NO.	IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	SKIN
METHYL ETHYL KETONE	78-93-3	45.0%	200 ppm	300 ppm	200 ppm	300 ppm	YES
TOULENE	108-88-3	20.0%	50 ppm	N/E	100 ppm	150 ppm	YES
ACETONE	67-64-1	10.0%	750 ppm	1000 ppm	750 ppm	1000 ppm	YES
METHYL AMYL KETONE	110-43-0	10.0%	50 ppm	N/E	100 ppm	N/E	YES
1-METHOXY-2-PROPANOL							
ACETATE	108-65-6	5.0%	N/E	N/E	N/E	N/E	YES
CRYSTALLINE SILICA	14808-60-7	5.0%	0.1 mg/M3	N/E	0.1 mg/M3	N/E	NO
ETHYL 3-ETHOXY-							
PROPIONATE	763-69-9	5.0%	N/E	N/E	N/E	N/E	YES
CARBON BLACK	1333-86-4	5.0%	3.05 ppm	N/E	N/E	N/E	NO
ETHYLBENZENE	100-41-4	1.0%	100 ppm	125 ppm	100 ppm	N/E	YES

**SECTION 2 NOTES:** (See Section XIII for abbreviation legend)

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## SECTION 3: PHYSICAL DATA

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APPEARANCE: Black liquid  
ODOR: Solvent  
BOILING POINT: 133 ° to 337° F (56.1° to 169.4° C)  
VAPOR DENSITY (AIR = 1): Is heavier than air  
SPECIFIC GRAVITY (H2O = 1): 0.9106  
EVAPORATION RATE: Is slower than Butyl Acetate  
SOLUBILITY IN WATER: Insoluble in H2O  
PERCENT VOLATILE:  
BY WT = 78.6% BY VOL = 84.3%  
VOLATILE ORGANIC COMPOUNDS (VOC):  
LBS/GAL: 5.88  
GRAMS/LTR: 705

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## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT  
13.1%

FLAMMABLE LIMITS IN AIR, UPPER:

F: 10° F

(% BY VOLUME)

LOWER: 1.0%

F: 10° F (12.2° C)  
(Tagliabue closed cup)

EXTINGUISHING MEDIA: CO2 Dry Chemical Foam Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep containers tightly closed when not in use. Vapors are heavier than air and can travel long distances to a source of ignition. Isolate from excessive heat, open flame, sparks and electrical equipment. Application of this product to hot surfaces requires special precautions. Closed containers may explode due to pressure build-up when exposed to extreme heat. Follow label warnings until container has been thoroughly cleaned or destroyed.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear full protective equipment, including self-contained breathing apparatus. Water may be used to cool unruptured containers to prevent pressure build-up and possible autoignition or explosion.

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## SECTION 5: HEALTH HAZARDS DATA

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### EFFECTS OF OVEREXPOSURE:

**EYES:** May cause severe irritation, redness, tearing and blurred vision.

**SKIN:** Prolonged or repeated contact may cause irritation, defatting and dermatitis. May be harmful if absorbed through skin.

**INHALATION:** Vapors may irritate mucous membranes and cause headaches, nausea, dizziness, vomiting, fatigue and/or impairment of coordination.

**INGESTION:** May cause nausea, vomiting, irritation and/or diarrhea.

**EFFECTS OF OVEREXPOSURE- CHRONIC HEALTH HAZARDS:** Chronic exposure to high concentrations of hazardous material in this product may cause loss of appetite, diarrhea, nose bleeds, encephalopathy and neural disfunctions. Cancer hazard: This product contains crystalline silica, which can cause cancer. The risk of cancer depends on the level and duration of exposure.

**WARNING!** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

### FIRST AID MEASURES

**EYES:** Flush eyes immediately with large amounts of fresh water for at least 15 minutes. Obtain medical treatment.

**SKIN:** Wash affected areas of skin with soap and water. Remove all contaminated clothing. Consult a physician if irritation persists.

**INGESTION:** Drink 1-2 large glasses of water to dilute. **DO NOT INDUCE VOMITING!** If vomiting does occur, keep head below hips to prevent aspiration of material into lungs, as even small amounts may cause chemical pneumonitis, pulmonary edema and/or hemorrhage. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel.

**INHALATION:** Remove to fresh air and, if necessary, restore breathing. Treat symptomatically and consult a physician.

**PRIMARY ROUTES OF ENTRY:** Skin contact Skin absorption Inhalation Eye contact

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## SECTION 6; REACTIVITY DATA

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**HAZARDOUS DECOMPOSITION PRODUCTS:** Smoke, carbon monoxide, carbon dioxide and other potentially toxic gases may be released when this product is heated to decomposition. Overexposure to

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these decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**CONDITIONS TO AVOID (STABILITY):** High temperature, sources or ignition and poor ventilation.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers, acids and caustics.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal conditions

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## SECTION 7: SPILL OR LEAK PROCEDURES

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Evacuate non-essential personnel from immediate area and remove all sources of ignition. Ventilate area if possible and avoid breathing vapors. Wear a respirator while collecting material with inert absorbent and non-sparking tools. Large spills beyond normal maintenance should be collected by trained emergency response personnel.

**WASTE DISPOSAL METHOD:** Dispose of material in accordance with federal, state and local regulations. Refer to hazard caution statements in Sections IV, V, and VI.

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## SECTION 8: SAFE HANDLING AND USE INFORMATION

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**RESPIRATORY PROTECTION:** If ventilation is not adequate to reduce vapors below the listed requirement in Section II, use a self-contained, positive-pressure breathing apparatus or a NIOSH/MSHA approved respirator for organic vapors. The user must be properly fitted and trained to assure effective protection.

**VENTILATION :** Sufficient ventilation, in volume and pattern, should be provided to keep the air contaminant concentration below the current OSHA Permissible Exposure Limit (PEL) or ACGIH Threshold Limit Value (TLV). Heavy solvent vapors should be removed from the lower levels of the work area. All ignition sources, including non-explosion proof equipment, should be eliminated. Remove all decomposition products formed during welding or flame cutting of surfaces coated with this product.

**EYE PROTECTION:** Use safety glasses with splash guards or side shields, splash goggles or face shield.

**SKIN PROTECTION:** Use solvent-impervious gloves for prolonged or repeated contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** A protective apron or solvent-impervious clothing is recommended for splash protection. Wear chemical resistant footwear.

**WORK HYGIENIC PRACTICES:** Wash hands and face before eating, drinking, using tobacco products or using the bathroom. Remove and wash contaminated clothing before reuse. Do not reuse contaminated footwear unless they are decontaminated. Store personal items, such as cigarettes and gum, away from the work area.

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## SECTION 9: SPECIAL PRECAUTIONS

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**HANDLING AND STORAGE:** **EXTREMELY FLAMMABLE LIQUID!** Keep container tightly closed when not in use. Ground all holding and transfer containers. Avoid storage above 120°F or near fire or open flame. Do not transfer to unlabeled containers.

**OTHER PRECAUTIONS:** For industrial use only. Reports have associated repeated or prolonged occupational overexposure to solvents with permanent brain damage. Intentional misuse by deliberately concentrating and inhaling the contents of this product may be harmful or fatal.

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## SECTION 10: HMIS RATINGS

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### HMIS HAZARD CLASSIFICATION

HEALTH: 2      FLAMMABILITY: 3      REACTIVITY: 0

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## SECTION 11: OTHER REGULATIONS

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### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

**313 REPORTABLE INGREDIENTS:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % IS LESS THAN
METHYL ETHYL KETONE	78-93-3	45.0 %
TOLUENE	108-88-3	20.0 %
ETHYLBENZENE	100-41-4	1.0 %

**TOXIC SUBSTANCES CONTROL ACT:** This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States.

CHEMICAL NAME	CAS NUMBER
ACETONE	67-64-1
ISOPROPANOL	67-63-0
METHYL ISOBUTYL KETONE	108-10-1
n-BUTYL ACETATE	123-86-4
N-BUTANOL	71-36-3
ISOBUTANOL	78-83-1

### CALIFORNIA PROPOSITION 65:

**WARNING:** The chemical (s) noted below and contained in this product are known to the state of California to cause cancer, birth defects or other reproductive harm.

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3

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## SECTION 12: OTHER INFORMATION

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### OTHER INFORMATION:

**LEGEND:** N.A. - Not applicable  
N.D. - Not determined  
N.E. - Not established

### PREPARATION INFORMATION:

**DISCLAIMER:** The information and recommendations provided herein are believed to be accurate as of the date hereof. However, such information and recommendations are provided without warranty of any kind and **International Epoxies & Sealers** disclaims any and all liability or legal responsibility or use or reliance upon same.