

# MATERIAL SAFETY DATA SHEET

Product #4585

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #4585 Battery Protector  
Date Printed: May 23, 2011  
Product Use/Class: Battery Protector

Supplier: International Epoxies & Sealers  
30241 Commerce Drive  
San Antonio, FL 33576  
Information Phone: 1-800-451-7206

Emergency Telephone: INFOTRAC 1-800-535-5053  
Outside the U.S. Call collect: 1-352-323-3500

## 2. HAZARDOUS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: Vapors irritating to eyes and respiratory tract. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Immediate effects of overexposure may include: Frostbite, if liquid or escaping vapor contacts the skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure may cause nervous system damage. Overexposure may cause lung damage. Overexposure may cause kidney damage.

PRIMARY ROUTE(S) OF ENTRY: Skin contact, skin absorption, inhalation, ingestion, eye contact

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Item	Component	CAS#	Weight %
01	HEXANES	64742-49-0	30-40
02	PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	20-30
03	CORROSION INHIBITOR	MIXTURE	10-20
04	MINERAL SPIRITS	8052-41-3	10-20
05	PETROLEUM HYDROCARBON SOLVENT	64742-47-8	1-10

### EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY TLV-TWA	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING		
01	50 PPM	N.E.	500 PPM		N.E.	YES
02	N.E.	N.E.	N.E.	N.E.	N.E.	NO
03	100 PPM	N.E.	100 PPM	500 PPM	N.E.	NO
04	100 PPM	N.E.	100 PPM	N.E.	N.E.	NO
05	100 PPM	N.E.	100 PPM	500 PPM	N.E.	YES

(See Section 16 for abbreviation legend)

## 4. FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do NOT induce vomiting. Call physician immediately.

**5. FIRE FIGHTING MEASURES**

FLASH POINT: -141 F  
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: 0.7 %  
UPPER EXPLOSIVE LIMIT: 9.5 %

AUTOIGNITION TEMPERATURE: ND

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**7. HANDLING AND STORAGE**

AEROSOL LEVEL: 3

HANDLING: Wash thoroughly after handling.

STORAGE: Keep away from heat, sparks and flame. Keep from freezing.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

SKIN PROTECTION: Impervious gloves and chemical splash goggles should be used when handling liquid.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: STANDARD INDUSTRIAL CLOTHING STANDARDS SHOULD BE FOLLOWED.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

BOILING RANGE : -23 - 387 F

ODOR : SOLVENT

APPEARANCE : AMBER

SOLUBILITY IN H2O : NEGLIGIBLE

FREEZE POINT : ND

VAPOR PRESSURE : ND

PHYSICAL STATE : AEROSOL

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

VOLATILE ORGANIC COMPOUNDS (VOCS): 4.74 lbs/gal, 568 grams/ltr

VOC, % (wt): 83.55%

VAPOR DENSITY : Is heavier than air

ODOR THRESHOLD : ND

EVAPORATION RATE: Is faster than Butyl Acetate

SPECIFIC GRAVITY: 0.6816

pH @ 0.0 % : NA

VISCOSITY : ND

*(See Section 16 for abbreviation legend)*

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## 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: All sources of ignition, welding arcs, and open flames.

INCOMPATIBILITY: May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, oxides of carbon and oxides of nitrogen, phosphorous, and/or sulfur are possible.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

## 11. TOXICOLOGICAL INFORMATION

PRODUCT LD50: >5000 mg/kg

PRODUCT LC50: >5500 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	LD50 -----	LC50 -----
HEXANES	12705 MG/KG/RAT	150000 MG/M3/MOUSE
PROPANE/ISOBUTANE/N-BUTANE	NE	NE
CORROSION INHIBITOR	>5000 MG/KG/RAT	ND
MINERAL SPIRITS	>5000 MG/KG/RAT	>5500 MG/M3/4/RAT
PETROLEUM HYDROCARBON SOLVENT	>5000 MG/KG/RAT	>5500 MG/M3/4H/RAT

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all federal, state, and local regulations.

## 14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY

DOT TECHNICAL NAME:

DOT HAZARD CLASS: ORM-D

HAZARD SUBCLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

DOT EXEMPTIONS:

DOT SPECIAL INSTRUCTIONS:

IMDG SHIPPING INFORMATION: UN1950

IMDG PROPER SHIPPING NAME: AEROSOLS

IMDG TECHNICAL NAME:

IMDG HAZARD CLASS: 2.1

HAZARD SUBCLASS:

PACKING GROUP:

FLASH POINT, C: -96.4

IMDG EXEMPTIONS: LIMITED QUANTITY

IMDG SPECIAL INSTRUCTIONS:

MARINE POLLUTANT (YES/NO):

IATA SHIPPING INFORMATION: ID8000

IATA PROPER SHIPPING NAME: CONSUMER COMMODITY

IATA TECHNICAL NAME:

IATA HAZARD CLASS: 9

HAZARD SUBCLASS:

PACKING GROUP:

IATA EXEMPTIONS:

IATA SPECIAL INSTRUCTIONS:

## 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

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This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD PRESSURIZED GAS HAZARD  
SARA SECTION 313:

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
HEXANES	64742-49-0	30-40

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
No information is available.	

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous materials are among the top five ingredients.	

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.	

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
ETHYLBENZENE	100-41-4

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: A, B5, D2A

## 16. OTHER INFORMATION

**HMIS Rating: Health 1 Flammability 4 Physical Hazard 0**

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe  
\* = Chronic Health Hazard

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Prepared by: Technical Manager

DISCLAIMER: Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS may not be applicable. **END OF MSDS**