

# SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION

PRODUCT NAME: POLYURETHANE HARDENER  
PRODUCT CODE: .1185  
RECOMMENDED USE: PAINT OR PAINT RELATED MATERIAL

MANUFACTURER: SIERRA CORPORATION  
ADDRESS : 11400 WEST 47TH STREET  
MINNETONKA, MN 55343 USA  
TELEPHONE: 952-938-7223 E-mail: safety@fenixspc.com  
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## SECTION 2 - HAZARDS IDENTIFICATION

### HAZARD RISK CLASSIFICATION

SIGNAL WORD: DANGER

### PICTOGRAM:

GHS02 - FLAME GHS07 - EXCLAMATION MARK GHS08 - HEALTH HAZARD

### HAZARD CLASS

### HAZARD CATEGORY

FLAMMABLE LIQUIDS	CATEGORY 2
ACUTE TOXICITY	CATEGORY 4 ORAL
ACUTE TOXICITY	CATEGORY 4 DERMAL
ACUTE TOXICITY	CATEGORY 4 INHALATION
SKIN CORROSION /IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE / EYE IRRITATION	CATEGORY 2 AND 2A
RESPIRATORY SENSITIZER	CATEGORY 1
SKIN SENSITIZER	CATEGORY 1
TOXIC TO SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	CATEGORY 3

### HAZARD STATEMENTS:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

### PRECAUTIONARY STATEMENTS:

#### PREVENTION:

P210	Keep away from heat/hot surfaces/sparks/open flames and other sources of ignition. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical / ventilation/lighting/handling equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapor/ spray.
P264	Wash hands and any exposed area thoroughly after handling.
P270	Do not eat, drink or smoke while using this product.

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- P271 Use only outdoors or in well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P281 Use appropriate personal protective impervious gloves/protective clothing/ OSHA approved eye protection/ face protection.

**RESPONSE:**

- P301+P310 If swallowed: Immediately call a Poison Center / doctor.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
- 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 do. Continue rinsing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P321 Specific treatment (see on this label)
- P330 Rinse mouth.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a Poison Center/doctor.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam to extinguish.

**STORAGE:**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

**DISPOSAL:**

- P501 Store separately. Dispose of contents/ container in accordance with local/ regional/national /international regulations.

**OTHER HAZARDS: NONE KNOWN**

**HMIS RATING:**     **H**     **F**     **R**     **PPE**  
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===== **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS** =====

COMPONENT	CAS NUMBER	WEIGHT PERCENT	EXPOSURE LIMITS		
			OSHA PEL	ACGIH TLV	OTHER
Homopolymer of HDI	28182-81-2	75-95		0.5 MG/M3 PEL	
Methyl Propyl Ketone	107-87-9	10-15	200 PPM		200 PPM
Methyl Normal Amyl Ketone	110-43-0	5.0-7.5	100 PPM		50 PPM
2-Methyl 4-Pentanone	108-10-1		50 PPM	50 PPM	STEL 75 PPM

+ Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

^ Hazardous Air Pollutant established by the EPA as directed by the Clean Air Act of 1990.

===== **SECTION 4 - FIRST AID MEASURES** =====

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## PRIMARY ROUTES OF EXPOSURE:

Skin contact, eye contact, and inhalation.

## DESCRIPTION OF FIRST AID MEASURES:

**IF ON SKIN:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. If irritation develops and persists, seek medical attention.

**IF IN EYES:** Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. If symptoms persist, seek medical attention.

**IF SWALLOWED:** Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, hospital emergency room, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. **VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.**

**INHALATION:** Move affected individual to fresh air. If breathing is difficult, qualified personnel should administer oxygen. If breathing has stopped give artificial respiration. If respiratory symptoms develop or persist, seek medical attention.

## MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

**EYES:** Contact with eyes may cause irritation including burning, watering, and redness.

**SKIN:** Contact may cause mild skin irritation including redness, burning, and drying and cracking of skin.

Continued exposure may develop into dermatitis. Solvents can penetrate the skin and cause systematic effects similar to those under inhalation symptoms.

**INHALATION:** High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

**INGESTION:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

## CHRONIC HEALTH EFFECTS:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (Sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistent irritation or dermatitis.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

## INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

## ===== SECTION 5 - FIRE AND EXPLOSION HAZARD DATA =====

### SUITABLE EXTINGUISHING MEDIA:

Foam, CO<sub>2</sub>, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

### SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat. In the event of fire, harmful vapors including carbonyl monoxide, carbon dioxide, and others may be released.

### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen, exercise caution when using CO<sub>2</sub> in confined areas.

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## =====**SECTION 6 - ACCIDENTAL RELEASE MEASURES**=====

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** Evacuate area and keep unnecessary and unprotected personell from entering the spill area. Use proper personal protective equipment listed in section 8.

**ENVIRONMENTAL PRECAUTIONS:** Keep runoff from storm sewars, ditches, streams, lakes and other ground waters and waterways.

### **METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:**

Contain all spills. Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Stay upwind from area. Stop source of release if possible with minimal risk. Spilled material may be absorbed with an appropriate spill kit. Collect into suitable contaners and dispose of properly in accordance with all applicable regulations. (See Section 13)

## =====**SECTION 7 - HANDLING AND STORAGE**=====

### **PRECAUTIONS FOR SAFE HANDLING:**

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communication Standard.

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Static charge can accumulate by flow or agitation. Ignition can occur by static discharge. The use of explosion proof equipment is recommended and may be required. The use of respiratory protection is advised when concentrations exceed any established exposure limits and in confined spaces. Use good industrial and personal hygiene practice, wash thoroughly after handling, and do not wear contaminated clothing.

### **PRECAUTIONS FOR SAFE STORAGE:**

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

### **OTHER PRECAUTIONS:**

"Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may expode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

## =====**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**=====

**CONTROL PARAMETERS:** SEE SECTION 3 FOR OCCUPATIONAL EXPOSURE LIMIT VALUES

**ENGINEERING CONTROLS:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

### **PERSONAL PROTECIVE EQUIPMENT:**

#### **RESPIRATORY PROTECTION:**

Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 3). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

#### **PROTECTIVE GLOVES:**

Prevent prolonged or repeated contact by wearing gloves impervious to solvents and other appropriate protective clothing. Launder contaminated clothing before reuse.

#### **EYE PROTECTION:**

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are

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appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

#### WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

### ===== SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES =====

APPEARANCE/PHYSICAL STATE: Liquid	COLOR: Various colors
ODOR: Hydrocarbon odor	pH: Not Determined
ODOR THRESHOLD: Not measured	SOLUBILITY IN WATER: Insoluble/Negligible
MELTING/FREEZING POINT: Not Determined	BOILING POINT/RANGE: 0 deg F - 300 F
SPECIFIC GRAVITY (H2O=1): 1.06	VAPOR DENSITY: Greater Than Air
EVAPORATION RATE: Not Determined	FLAMMABILITY: Not determined
FLASH POINT: 0 deg F	VAPOR PRESSURE: Not Determined
UPPER EXPLOSION LIMIT: 8.0	AUTO-IGNITION TEMPERATURE: Not Determined
LOWER EXPLOSION LIMIT: 0	PARTITION COEFFICIENT: Not Available
DECOMPOSITION TEMPERATURE: Not Available	VISCOSITY: Not Determined
COATING V.O.C.: 223 g/l (1.86 lb/gal )	

### ===== SECTION 10 - STABILITY AND REACTIVITY DATA =====

REACTIVITY: Will not occur.

#### CHEMICAL STABILITY:

Stable under normal conditions and handling.

#### POSSIBILITY OF HAZARDOUS REACTIONS:

No hazardous reactions if stored and handled as prescribed/indicated.

#### CONDITIONS TO AVOID:

All possible sources of ignition.

#### INCOMPATIBLE MATERIALS:

Avoid exposure to strong oxidizing agents and reducing agents.

#### HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen.

### ===== SECTION 11 - TOXICOLOGICAL INFORMATION =====

#### SENSITIZATION:

None known.

#### CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

#### REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

#### TERATOGENICITY (BIRTH DEFECTS):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

#### MUTAGENICITY:

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

### ===== SECTION 12 - ECOLOGICAL INFORMATION =====

#### ECOTOXICITY:

No data available.

#### PERSISTENCE AND DEGRADABILITY:

Not readily degradable.

#### BIOACCUMULATIVE POTENTIAL:

No data available.

#### MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS: Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

This product is considered a RCRA hazardous waste due to the characteristic(s) of D001 (ignitability). Waste is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers empty prior to discarding. Container rinsate could be considered a RCRA hazardous waste and must be discarded in compliance with all applicable regulations. Larger empty containers, such as drums, should be returned to a professional drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

## SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: (UN #, SHIPPING NAME, HAZARD CLASS, PACKING GROUP)

UN1263, Paint Related Material, 3, II

## SECTION 15 - REGULATORY INFORMATION

### US TOXIC SUBSTANCE CONTROL ACT (TSCA):

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: None

SARA 311/312 HAZARDOUS CHEMICAL: See Section 3

### SARA 313 (TRI REPORTING):

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 3.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE
Methyl Isobutyl Ketone	108-10-1	CA, CT, FL, IL, LA, ME, MN, NJ, PA, RI

### CALIFORNIA PROPOSITION 65

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65.

Methyl isobutyl ketone CAS #108-1-0 Cancer, developmental

## SECTION 16 - OTHER INFORMATION

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This version replaces all previous versions. The information contained in this SDS and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Although certain hazards are described herein, The Sierra Company, LLC, cannot guarantee that these are the only hazards that exist. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall The Sierra Company, LLC, assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. The Sierra Company, LLC, expressly disclaims any representations and warranties of any kind, whether express or implied, as to the accuracy, completeness, non-infringement, merchantability and/or fitness for a particular purpose with respect to any information and recommendations provided. The Sierra Company, LLC, reserves the right to make any changes to the information and/or recommendations at any time, without prior subsequent notice.