



## **SAFETY DATA SHEET**

### **1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** 4500KHS SOLID 46%

**Product type:** pressure sensitive adhesive

**Restriction of use:** None identified

**Company Address:** Precision Adhesives and Chemicals  
131 Brown Street  
Yatesville, PA 18640

**Telephone numbers:** 570-654-6735

**Transport Emergency phone:** Chemtrec 800-424-9300

**Medical Emergency phone:** Poison Control Center 1.877.671.4608

### **2. HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture:**

Flammable liquids (Category 2)

Acute toxicity, Inhalation (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Reproductive toxicity (Category 2)

Specific target organ toxicity - single exposure (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Aspiration hazard (Category 1)

Acute aquatic toxicity (Category 4)

**Signal Word:** Danger

**Hazard Statements:**

H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child.

H371: May cause damage to organs.

H401: Toxic to aquatic life.

**Pictograms:****Precautionary Statements:**

P210: Keep away from heat / sparks / open flames /hot surfaces. No smoking.

P260: Do not breathe dust / fume / gas / mist / vapors / spray.

P281: Use personal protective equipment as required.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331: Do NOT induce vomiting

**Hazards not otherwise classified:**

**EUH 066 Repeated exposure may cause skin dryness or cracking.**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS Number	% by weight
Thermoplastic rubber	Trade secret	18 to 23
Toluene	108-88-3	20 to 40
Petroleum hydrocarbon resin	Trade secret	23 to 28

**4. FIRST AID MEASURES****Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth;

place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, see medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Note to physicians**

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (see section 3 – Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions), kidney, central nervous system, auditory system. Individuals with preexisting heart disorders may be more susceptible to arrhythmias if exposed to high concentrations of this material.

**5. FIRE FIGHTING MEASURES****Flash point**

45° F

**Flammable limit**

(for component) Lower: 1.2%, Upper: 7.0%

**Auto-ignition temperature**

No data

**Hazardous products of combustion**

May form carbon dioxide, carbon monoxide, and various hydrocarbons.

**Fire and explosion hazards**

Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motor, static discharger, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Extinguishing media**

Regular foam, water fog, carbon dioxide, dry chemical.

**Fire fighting instructions**

Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure

demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**NFPA rating**

Not determined

**6. ACCIDENTAL RELEASE MEASURES****Small spill**

Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks, Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large spill**

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

**7. HANDLING AND STORAGE**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be ground an/or bonded when material is transferred.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Eye protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection**

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory protections**

If workplace exposure limits of product or any component are exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSH regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

**Engineering controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below

TLV.

### **Exposure guidelines**

THERMOPLASTIC RUBBER

No exposure guidelines established

TOLUENE (108-88-3)

OSHA PEL 200 ppm – TWA

OSHA PEL 300 ppm – ceiling

OSHA VPEL 100 ppm – TWA

OSHA VPEL 150 ppm – STEL

ACGIH TLV 50 ppm – TWA (skin)

ACGIH TLV 150 ppm – STEL (skin)

MODIFIED ROSIN ESTER

No exposure guidelines established

PETROLEUM HYDROCARBON RESIN

No exposure guidelines established

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Boiling point**

(for component) 110.6°C (231.1°F)

### **Vapor pressure**

(for component) 3.8 kPa (@ 25°C)

### **Specific vapor**

No data

### **Specific gravity**

0.9 @ 77°F

### **Liquid Density**

7.5 lbs/gal @ 77°F

0.9 kg/l @ 25°C

### **Percent Volatiles**

20 to 40%

## **10. STABILITY AND REACTIVITY**

### **Hazardous polymerization**

Product will not undergo hazardous polymerization.

**Hazardous decomposition**

May form carbon dioxide, carbon monoxide and various hydrocarbons.

**Chemical stability**

Stable

**Incompatibility**

Avoid contact with strong alkalis, strong mineral acids, and strong oxidizing agents.

**11. TOXICOLOGICAL INFORMATION**

**Emergency Overview:** POISON! DANGER! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE LIQUID AND VAPOR. MAY AFFECT LIVER, KIDNEYS, BLOOD SYSTEM, OR CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Potential Health Effects:**

**Inhalation:** Inhalation may cause irritation of the upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e. g. pins and needles) or numbness may be produced. Very high concentrations may cause unconsciousness and death.

**Ingestion:** Swallowing may cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration of material into the lungs can cause chemical pneumonitis, which may be fatal.

**Skin Contact:** Causes irritation. May be absorbed through skin.

**Eye Contact:** Causes severe eye irritation with redness and pain.

**Chronic Exposure:** Reports of chronic poisoning describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Repeated or prolonged contact has a defatting action, causing drying, redness, dermatitis. Exposure to toluene may affect the developing fetus.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or impaired liver or kidney function may be more susceptible to the effects of this substance. Alcoholic beverage consumption can enhance the toxic effects of this substance.

**Reproductive Toxicity:** Has shown some evidence of reproductive effects in male and female laboratory animals.

**Teratogenicity:** Damage to fetus possible; Suspected human reproductive toxicant.

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:)** No data available

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:)** No data available

**Numerical Measures of Toxicity:** Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Toluene (108-88-3)	No	No	None

**Acute Toxicity:** Oral rat LD50: 636 mg/kg; skin rabbit LD50: 14100 uL/kg; inhalation rat LC50: 49 gm/m<sup>3</sup>/4H; Irritation data: skin rabbit, 500 mg, Moderate; eye rabbit, 2 mg/24H, Severe.  
Investigated as a tumorigen, mutagen, reproductive effecter

## **12. ECOLOGICAL INFORMATION**

no data

## **13. DISPOSAL CONSIDERATION**

Destroy by liquid incineration in accordance with applicable regulations.

## **14. TRANSPORT INFORMATION**

**DOT information – 49 CFR 172.101**

**DOT description:** ADHESIVES,3,UN1133,II

**Container mode**

55 gal drum

**NOS component**

None

**RQ (reportable quantity) – 49 CFR 172.101**

Toluene component: 4878 lbs.

## **15. REGULATORY INFORMATION**

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene

California prop. 65 (no significant risk level): Toluene: 7 mg/day (value) California prop. 65 (acceptable daily intake level): Toluene: 7 mg/day (value)

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene

Connecticut hazardous material survey.: Toluene

Illinois toxic substances disclosure to employee act: Toluene

Illinois chemical safety act: Toluene

New York release reporting list: Toluene

Rhode Island RTK hazardous substances: Toluene

Pennsylvania RTK: Toluene

Florida: Toluene

Minnesota: Toluene

Michigan critical material: Toluene

Massachusetts RTK: Toluene

Massachusetts spill list: Toluene

New Jersey: Toluene

New Jersey spill list: Toluene

Louisiana spill reporting: Toluene

California Director's List of Hazardous Substances.: Toluene

TSCA 8(b) inventory: Toluene

TSCA 8(d) H and S data reporting: Toluene

SARA 313 toxic chemical notification and release reporting: Toluene

CERCLA: Hazardous substances.: Toluene: 1000 lbs. (453.6 kg)

Other Regulations:

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

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S33- Take precautionary measures against static discharges.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

**Specific hazard: none**

## **16. OTHER INFORMATION**

Updated: 2/8/18

**\*\*\*SPECIAL COMMENT REGARDING ALL MATERIALS MANUFACTURED\*\*\***

All information, recommendations and suggestions appearing herein concerning our products are based upon test data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Adhesives and Chemicals as to the effects or such use, the results to be obtained, or the safety and toxicity of the product nor does Adhesives and Chemicals assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.