

# SAFETY DATA SHEET

Revision Date: 6/1/15

## 1. Product and Company Information

### 14-24-2 Adhesive

Mid-West Industrial Chemical Company  
1509 Sublette Ave.  
St. Louis, MO 63110 USA

24-Hour Emergency Response Information:  
CHEMTREC 1-800-424-9300

Product use: Industrial Solvent-based Adhesive

## 2. Hazards Information

### GHS Classification:

Flammable liquids, Category 2

Skin Irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Specific target organ toxicity repeated exposure, Category 2

Aspiration hazard, Category 1

Reproductive Toxicity, Category 2



**Signal Word: Danger.**

### Hazard Statements:

H225: Highly flammable liquid and vapor.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or unborn child.

### Precautionary Statements (continued):

P405: Store locked up.

P264: Wash skin thoroughly after handling.

P280+P281: Wear protective gloves, protective clothing, eye protection, face protection. Use other personal protective equipment as required. (See Section 8.)

P301+P331: IF SWALLOWED: Get medical attention immediately. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

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

P337+P313: If eye irritation persists: Get medical advice/attention.

P308+P310+P101+P312+P313: If exposed or concerned: Immediately call a POISON CENTER or physician. If medical attention is needed, have product container or label at hand.

P302+P303+P352+P362: IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P370+P378: In case of fire, use foam, dry chemical, or CO2 for extinction.

P501: Dispose of contents/containers in accordance with applicable regulations.

### Precautionary Statements:

P102: Keep out of reach of children.

P201+P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

P241: Use explosion proof electrical, ventilation, lighting, equipment.

P242: Use only non-sparking tools.

P240: Ground/bond container and receiving equipment.

P243: Take precautionary measures against static discharge.

P233+P403+P235+P271: Keep container tightly closed and in a well-ventilated place. Keep cool. Use only outdoors or in a well-ventilated area.

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

# SAFETY DATA SHEET

## 3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt. %</u>
Toluene	108-88-3	28-33
Acetone	67-64-1	6-10
Hexane	110-54-3	18-24
n-Heptane	142-82-5	3-6
Heptane,Branched,Cyclic,Linear	426260-76-6	8-11
Synthetic Rubber & Resins	N.A.	23-29

\* The specific chemical identities and/or exact percentages have been withheld as a trade secret.

## 4. First Aid Measures

**INHALATION:** Remove to fresh air and keep at rest in a position that is comfortable for breathing. If breathing has stopped, apply artificial respiration and get medical attention immediately.

**SKIN CONTACT:** Immediately wash with soap and plenty of water. Remove contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

**EYE CONTACT:** Hold eyelids apart and flush eyes with large quantities of water for 15 minutes. Remove contact lenses, if present and easy to do after the first 5 minutes and continue rinsing eye. Get medical attention.

**INGESTION:** Get medical attention immediately. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

## 5. Fire-Fighting Measures

**FLASH POINT (T.C.C.):** -20 °F./ -28 °C.

**FLAMMABLE LIMITS (% by Volume) :**

Lower Explosion Limits: 1.0                      Upper Explosion Limits: 12.8

**FIRE FIGHTING MEASURES:**

Fire extinguishing media: foam, dry chemical, CO<sub>2</sub> .

**SPECIAL FIREFIGHTING PROCEDURES:** Do not use water as it may be ineffective. Water may be used to cool closed containers. Wear self-contained breathing apparatus and protective clothing in fighting fires to avoid inhalation of smoke and vapors.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Vapors may cause flash fire! Vapors may ignite explosively!

## 6. Accidental Release Measures

**Personal precautions:** Use personal protective clothing and equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:** Do not allow discharge to drains, surface water, or groundwater. Dike the spill as needed.

# SAFETY DATA SHEET

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove or extinguish all sources of flame, heat & sparks. Turn off all electric motors in area. Ventilate the area. Transfer liquid to a holding container suitable for flammable solvents.

**WASTE DISPOSAL METHOD:** Dispose of as a hazardous waste in accordance with national, state and local regulations.

## 7. Handling and Storage

Extremely flammable liquid. Avoid heat, sparks, open flames. Vapors are heavier than air and may spread along floors. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits. Use grounding wires when transferring product from one container to another. Avoid breathing vapors and contact with skin and eyes. Provide adequate general and local exhaust ventilation. Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Store product in a cool, well-ventilated place. Keep containers tightly sealed when not in use.

## 8. Exposure Controls and Personal Protection

**ENGINEERING CONTROLS:** General and local exhaust. General dilution ventilation of sufficient volume and pattern to keep vapor concentration below 20 PPM.

**RESPIRATORY PROTECTION:** If required, use NIOSH approved respirator for organic vapor and mist in compliance with OSHA Standard 29 CFR 1910.134.

**SKIN PROTECTION:** impermeable gloves to minimize skin contact.

**EYE PROTECTION:** Wear goggles, face shield, or safety glasses with side shields.

**OTHER PROTECTIVE EQUIPMENT:** Eye bath and safety shower.

**HYGIENIC PRACTICES:** Wash with soap and water before eating, drinking, smoking or using toilet facilities.

## 9. Physical and Chemical Properties

**Appearance and Odor:** Light tan color, mobile liquid, Toluene/Naphtha solvent odor.

Boiling Point (°F):	132.0	Specific Gravity (H <sub>2</sub> O=1):	0.85
Vapor Pressure (mm Hg):	185.0	Percent Volatile (By Volume):	77.0
Vapor Density (AIR=1):	3.05	Evaporation Rate (Butyl Acetate = 1)	GREATER
Solubility in Water:	Slight	Evaporation Rate (Ethyl Ether = 1)	LESS
Flash Point:	-20 °F/ -28 °C	Flammable Limits (% by Volume) :	
Auto-ignition Temperature:	399 °F/ 204 °C	Lower Explosion Limit:	1.0, Upper Explosion Limit: 12.8

## 10. Stability and Reactivity

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

**CONDITIONS TO AVOID:** Fire, Excessive heat.

**INCOMPATIBILITY(Materials to avoid):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION or BYPRODUCTS:** CO, CO<sub>2</sub>, HCL CL<sub>2</sub>, HYDROCARBONS.

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

# SAFETY DATA SHEET

## 11. Toxicological Information

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT, SKIN ABSORPTION, INGESTION, EYE CONTACT.

### Component Analysis LC50/LD50:

Toluene	Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg.
Acetone	Inhalation LC50 Rat 50100 mg/m <sup>3</sup> 8 h; Oral LD50 Rat 5800 mg/kg; Dermal LD50 Guinea Pig 7426 mg/kg.
Hexanes	Inhalation LC50 Rat >31.86 mg/l 4 h; Oral LD50 Rat 16,000 mg/kg; Dermal LD50 Rabbit >2,000 mg/kg.
n-Heptane	Inhalation LC50 Rat 103 g/m <sup>3</sup> 4 h; Oral LD50 Rat >15,000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg.

Carcinogenic Categories (IARC/NTP): None of the ingredients listed.

**WARNING: TARGET ORGAN EFFECTS:** This product is comprised of multiple ingredients both hazardous and non-hazardous materials. Since the quantity of each ingredient varies from less than 1% to as much as 99%, it is not possible to determine precise exposures to each individual material within the mixture. With regard to target organs, one or more of the following may be affected out of normal use or misuse of the product: Human and unborn human lungs, skin, brain, heart, kidneys, liver, reproductive organs, central nervous system and the blood. Damage to fetus possible.

**INGESTION:** can cause gastrointestinal irritation, nausea, vomiting and diarrhea. aspiration of material into lungs can cause chemical pneumonitis and pulmonary edema.

**INHALATION:** excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, nausea, impairment of coordination and even asphyxiation. Can cause motor neuropathy and paresthesia in distal extremities upon excessive exposure.

**SKIN CONTACT:** prolonged and repeated skin contact can cause defatting and drying of the skin which can result in skin irritation and dermatitis.

**EYE CONTACT:** can cause severe irritation, redness, tearing, blurred vision.

**CHRONIC HAZARDS:** Overexposure may cause headache, nausea, dizziness, impairment of coordination.

## 12. Ecological Information

Volatile Organic Compounds (VOCs): 4.67 lbs/gal. 560 grams/liter  
Ecological toxicity information not available for this mixture.

## 13. Disposal Considerations

Dispose of as a hazardous waste in accordance with national, state and local regulations.

## 14. Transport Information

DOT PROPER SHIPPING NAME: ADHESIVES CONTAINING A FLAMMABLE LIQUID  
DOT HAZARD CLASS: 3 HAZARD SUBCLASS:  
DOT UN/NA NUMBER: UN1133 PACKING GROUP: II  
RESP. GUIDE Number: 127

# SAFETY DATA SHEET

## 15. Regulatory Information

This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

## 16. Other Information

HMIS RATINGS: HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

The information contained on this MSDS may be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Notice: The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Mid-West Industrial Chemical Co., however, makes no representations as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving same will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Mid-West Industrial Chemical Co. be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with Federal, State or local regulations concerning the use of this compound, or compliance with respect to product liability, rest solely upon the purchaser thereof.