



SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name (As Labeled)	R-27730
Chemical Names:	Toluene / Heptane / Acetone
Product Number:	R-27730
Uses:	Flammable contact Adh.used in Lamination.
UN Number:	UN 1133
UN Dangerous /goods Class/Subsidiary Risk:	Hazard Class 3 Packing Group II
Manufacture's Name:	Hanna Rubber Company
Address:	908 W. 25th St. Kansas City, MO 64108
Emergency Phone:	(800) 424-9300 (CHEMTREC)
Business Phone:	(816) 221-9600 (Product Information)
Date of Preparation:	10/27/2022
Date of last revision:	

SECTION 2 HAZARD IDENTIFICATION

OSHA Hazards

Flammable liquids, Target Organs Effect, Moderate skin irritant, Teratogen, Reproductive hazard

Target Organs

Liver, Kidney, Central nervous system, Auditory system

GHS Classification

Aspiration hazard (Category 1)
Flammable liquids (Category 2)
Reproductive toxicity (Category2)
Skin irritation (Category 3)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)
Specific target organ toxicity - repeated exposure, oral (Category 2)
Acute aquatic toxicity (Category1)
Chronic aquatic (Category 1)



Signal Word

DANGER

Hazard Statement's)

H225	Highly Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement's)

P-210	Keep away from heat/sparks/open flames/hot surfaces- NO Smoking
P233	Keep container tightly closed.
P240	Ground / Bond container and receiving equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the enviroment.
P310	Immediately call a POISON CENTER or doctor / physician.
P331	Do not induce vomiting
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 +P313	If skin irritation or rash occurs: Get medical advice / attention.

HMIS Classification

Health Hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard:	0

NFPA Rating

Health Hazard:	2
Fire:	3
Reactivity Hazard:	0

Potential Health Effects

Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	May be harmful if swallowed.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NO.	EC-No.	WT % RANGE
1	Acetone	67-64-1	200-662-2	18-22%
2	Heptane	142-82-5	205-563-8	34-38%
4	Toluene	108-88-3	203-625-9	20-25%

Any remaining ingredients (to comprise 100% of the product) should be considered a proprietary blend of non-hazardous substances, or materials below threshold reporting limits.

SECTION 4 - FIRST AID MEASURES

Consult a physician. Show this safety data sheet to the doctor in attendance.

EYE CONTACT: Flush with large quantities of water for at least 15 minutes or until irritation subsides. Contact a Physician.

SKIN CONTACT: Wash with soap and water, Consult a physician.

INHALATION: Move to fresh air. If not breathing ,give artificial respiration. If breathing is difficult, give oxygen. Contact a Physician immediately.

INGESTION: Do not induce vomiting. If irritation or complications arise, contact a Physician or Regional Poison Control Center immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Conditions of Flammability:

Flammable in the presents of a source of ignition when the temperature is above the flash point keep away from heat/sparks/open flam/hot surface. **NO Smoking!**

Suitable extinguishing media:

Dry chemical, Carbon dioxide(CO2), Water spray, Alcohol-resistant foam.

Hazardous combustion products:

Hazardous decomposition products form under fire conditions-Carbon oxides.

Precautions for fire-fighting:

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

Wear full fire fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Further Information:

Use water spray to cool unopened containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protectective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and clean up:

Contain spillage, and the collect with an electrically protected vacuum cleaner or wet-brushing and place in container for disposal according to local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:

HANDLING INFORMATION: KEEP OUT OF THE REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

Storage information: Store away from caustics and oxidizers. Keep away form heat, sparks, and flames. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Use and store containers in a well ventilated area.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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SDS Components	CAS-No.	Value	Exposure Limits	Governing Body
Acetone	67-64-1	TWA	500 ppm	USA, ACGIH (TLV)
Heptane	79-20-9	TWA	400 ppm	USA, ACGIH (TLV)
Heptane	79-20-9	STEL	500 ppm	USA, ACGIH (TLV)
Toluene	108-88-3	TWA	20 ppm	USA, ACGIH (TLV)
Acetone	67-64-1	STEL	750 ppm	USA, ACGIH (TLV)
Acetone	67-64-1	STEL	1000 ppm	USA, OEL (OSHA)-Table Z-1 Limits
Acetone	67-64-1	TWA	1000 ppm	USA, OEL (OSHA)-Table Z-1 Limits
Acetone	67-64-1	TWA	750 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	TWA	100 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	STEL	150 ppm	USA, OSHA - Table Z-1 Limits
Heptane	79-20-9	TWA	400 ppm	USA, OSHA - Table Z-1 Limits
Heptane	79-20-9	STEL	500 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	TWA	200 ppm	USA, Occupational Exposure Limits - Table Z-2
Heptane	79-20-9	TWA	85 ppm	USA, NIOSH Recommended Exposure Limits
Acetone	67-64-1	TWA	250 ppm	USA, NIOSH Recommended Exposure Limits.

Engineering Controls:

Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, ect.) for vapors before entering.

Respiratory Protection:

When risk assessment shows air-purifying respirators are appropriate use full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection:

Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin and Body Protection:

Impervious clothing, Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid, Amber to Clear

Odor: Keytone

PH: Not Applicable

Boiling Point: 56 C 133 Deg. F

Flash Point: -17 Deg. C (1.4 Deg. F) Closed cup

Evaporation Rate:14.40 n-Butyl Acetate

Ignition Temperature: 465 C (869 F)
Upper Explosion Limits: 13 %
Lower Explosion Limits: 2 %
Vapor Pressure: 245.3 hPa (184.0 mmHg) at 39.5 Deg. C (103.1 Deg F)
Vapor Density: 0.786 g/cm³ at 25 Deg. C (77 Deg. F)
Water Solubility: Miscible
Partition Coefficients: N/A
lbs per Gallon: 6.86

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

Vapors may form explosive mixture with air.

Conditions to Avoid:

Heat, Flames and sparks, Extremes of temperature and direct sunlight.

Materials to Avoid:

Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with Phosphorous oxychloride.

Hazardous Decomposition Products:

Hazardous Decomposition Products formed under fire conditions, -Carbon Oxides
Other decomposition products- no data available

SECTION 11 - TOXICOLOGICAL PROPERTIES

Acute Toxicity:

Oral LD50

LD50 oral- rat-5,800 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex) Behavioral: Tremor

Inhalation LC50

LC50 Inhalation-rat-8 h-50,100 mg/kg

Other information on Acute Toxicity:

No data available

Skin Corrosion/Irritation:

Skin - rabbit - Mild skin irritation

Serious Eye Damage/Eye Irritation:

Eyes - rabbit - Eye irritation - 24 h

Respiratory or Skin Sensitization:

Chronic exposure may cause dermatitis.

Germ Cell Mutagenicity:

No data available

Reproductive Toxicity:

No data available.

Specific Target Organs Toxicity- Single Exposure (GHS)

May cause drowsiness or dizziness/

Aspiration Hazard:

No data available.

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic Effects: No data available

Additional Information:

RTECS: AL3150000

SECTION 12 - ECOLOGICAL INFORMATION
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Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540.00 mg/l - 96 h

Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 13,500.00 mg/l - 48 h
and other aquatic invertebrates.

Persistence and Degradability:

No data available

Bioaccumulative Potential:

No data available

Mobility in Soil:

No data available

PBT and vPvB Assessment:

No data available

Other Adverse Effects:

No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Discarded material should be incinerated at a permitted facility. Liquids cannot be disposed of in a landfill. Do not reuse empty containers. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261) : D001-Ignitable.

SECTION 14 - TRANSPORTATION INFORMATION
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DOT (US):

DOT PROPER SHIPPING NAME: UN1133, Adhesive containing a flammable liquid, Class 3, PG II

DOT HAZARD Class: 3

DOT UN/NA NUMBER: UN 1133

Packing Group: II

Reportable Quantity (RQ): 5000 Lbs.

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG:

UN number: 1133 Class: 3

Packing Group: II

Proper shipping name:

Adhesive containing a flammable liquids

Marine pollutant: No

IATA:

UN number 1133 Class: 3

Packing Group: II

Proper shipping name:

Adhesive containing a flammable liquids

DANGER : Highly Flammable Liquid and Vapor

SECTION 15 - REGULATORY INFORMATION
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SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302.

SARA 313 Components:

SARA SECTION 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Toluene 108-88-3 20-25 %

SARA 311/312 Hazard :

Fire Hazard, Acute Health Hazard, Chronic Health hazard.

CERCLA REPORTABLE QUANTITY:

Components	CAS #	Components RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5,000	1.54 lbs per gal
Toluene	108-88-3	1,000	1.72 lbs per gal

CLEAN AIR ACT:

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

108-88-3	Toluene	45%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%
98-82-8	Cumene	0.0004%

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or final VOC's (40 CFR 60.489):

108-88-3	Toluene	23%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%
98-82-8	Cumene	0.0004%

CLEAN WATER ACT:

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

108-88-3	Toluene	23%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

108-88-3	Toluene	23%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307:

108-88-3	Toluene	23%
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Massachusetts Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Heptane	142-82-5	
Toluene	108-88-3	
Benzene	71-43-2	

Pennsylvania Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Heptane	142-82-5	
Toluene	108-88-3	

New Jersey Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Heptane	142-82-5	
Toluene	108-88-3	

California Prop. 65 Components:



WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

Toluene / Benzene / Ethylbenzene

For more information, go to "www.P65Warnings.ca.gov."

WHMIS (Canada):

Class B-2 Flammable Liquid

Class D-2A Material causing other toxic effects (Very toxic)

Class D-2B Material causing other toxic effects (Toxic)

The following components are listed on the DSL (Canada)

Toluene CAS #108-88-3
 Heptane CAS #142-82-5
 Acetone CAS #67-64-1
 Petroleum Resin CAS #64742-16-1

The following components are listed on the NPRI (Canada)

Toluene CAS #108-88-3

The components of this product are reported in the following inventories:

Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Inventory of Chemical Substances (ISHL)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

SECTION 16 - OTHER INFORMATION

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

REASON FOR REVISION: To Correct MSDS Number/Change OSHA Hazcom Information

HAP less water, less exempt solvent: 1.99 # Per Gal.

VOC less water, less exempt solvent: 5.18 # Per Gal.

Product Shelf Life: 12 Months from the date of Mfg. in an unopened sealed container.

This data is offered in good faith as typical value and not as a product specification. No warranty either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End of SDS >