

**SAFETY DATA SHEET****SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Trade Name (As Labeled)	<b>R-27710</b>
Chemical Names:	Acetone / Hexane / Toluene
Product Number:	R-27710
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:	<b>Hanna Rubber Company</b>
Address:	908 W. 25th St. Kansas City, MO 64108
Emergency Phone:	(800) 424-9300 <b>(CHEMTREC)</b>
Business Phone:	(816) 221-9600 (Product Information)
Date of Preparation:	11/1/2022
Date of last revision:	

**SECTION 2 HAZARD IDENTIFICATION****OSHA Hazards**

Flammable liquids, Target Organs Effect, Irritant, Teratogen.

**Target Organs**

Peripheral liquids, Kidney, Liver, Testes

**GHS Classification**

Flammable liquids (Category 2)  
Skin irritation (Category 3)  
Eye irritation (Category 2B)  
Reproduction toxicity (Category 3)  
Specific target organ toxicity - single exposure (Category 3)  
Aspiration hazard (Category 3)  
Acute aquatic toxicity (Category 3)

**Signal Word****DANGER****Hazard Statement's)**

H225	Highly Flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H315 + H320	Causes skin and eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.

**Precautionary Statement's)**

P-210	Keep away from heat/sparks/open flames/hot surfaces- <b>NO Smoking</b>
P233	Keep container tightly closed.
P240	Ground / Bond container and receiving equipment
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P-301 + 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

**HMIS Classification**

<b>Health Hazard:</b>	2
<b>Chronic Health Hazard:</b>	*
<b>Flammability:</b>	3
<b>Physical Hazard:</b>	0

**NFPA Rating**

<b>Health Hazard:</b>	2
<b>Fire:</b>	3
<b>Reactivity Hazard:</b>	0

**Potential Health Effects**

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

<b>SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS</b>
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ITEM	CHEMICAL NAME	CAS NO.	EC-No.	WT % RANGE
1	Acetone	67-64-1	200-662-2	25-30%
2	Hexane	110-54-3	203-777-6	30-35%
3	Toluene	108-88-3	203-625-9	14-19%

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.

<b>SECTION 4 - FIRST AID MEASURES</b>
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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.

<b>SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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SDS Components	CAS-No.	Value	Exposure Limits	Governing Body
Acetone	67-64-1	TWA	500 ppm	USA, ACGIH (TLV)
Hexane	110-54-3	TWA	50 ppm	USA, ACGIH (TLV)
Toluene	108-88-3	TWA	20 ppm	USA, ACGIH (TLV)
Acetone	67-64-1	STEL	750 ppm	USA, ACGIH (TLV)
Hexane	110-54-3	TWA	500 ppm	USA, OEL (OSHA)-Table Z-1 Limits
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
Hexane	110-54-3	TWA	50 ppm	USA, 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	STEL	500 ppm	USA, OSHA - Table Z-1 Limits
Toluene	108-88-3	TWA	200 ppm	USA, Occupational Exposure Limits - Table Z-2
Hexane	110-54-3	TWA	50 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.

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>
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**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/cm<sup>3</sup> at 25 Deg. C (77 Deg. F)  
**Water Solubility:** Miscible  
**Partition Coefficients:** N/A  
**lbs per Gallon:** 6.88

## 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

<b>SECTION 12 - ECOLOGICAL INFORMATION</b>
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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

<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>
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**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

**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

**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	14-19 %
Hexane	110-54-3	30-35 %

**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	*
Hexane	110-54-3	5,000	*
Toluene	108-88-3	1,000	*

\* Calculated RQ exceeds reasonably attainable upper limit.

**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%
110-54-3	Hexane	26%
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 SOCOMI Intermediate or final VOC's (40 CFR 60.489):

108-88-3	Toluene	45%
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	45%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%
91-20-3	Naphthalene	0.0999%

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

108-88-3	Toluene	45%
100-41-4	Ethylbenzene	0.0999%
71-43-2	Benzene	0.0999%
91-20-3	Naphthalene	0.0999%

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

108-88-3	Toluene	45%
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#### Massachusetts Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Hexane	110-54-3	
Toluene	108-88-3	
Benzene	71-43-2	

#### Pennsylvania Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Hexane	110-54-3	
Toluene	108-88-3	

#### New Jersey Right to Know Components:

	CAS #	Revision Date
Acetone	67-64-1	
Hexane	110-54-3	
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 / n-Hexane / Benzene / Ethylbenzene / Naphthalene**

For more information, go to "[www.P65Warnings.ca.gov](http://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  
 n-Hexane CAS #110-54-3  
 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  
 n-Hexane CAS #110-54-3

**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
Phillippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<b>SECTION 16 - OTHER INFORMATION</b>
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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: 4.69 # Per Gal.

VOC less water, less exempt solvent: 4.69 # 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 >