RUBBER CEMENT

This product appears in the following stock number(s):
14900

Last revised: 10/07/03
Printed: 2/10/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: RUBBER CEMENT
General use: Once properly cured, this product is not hazardous.
Chemical family: Neoprene Adhesive Solution

MANUFACTURER

ITW Devcon
30 Endicott St.
Danvers, MA 01923

EMERGENCY INFORMATION

Emergency telephone number
(CHEMTREC): (800) 424-9300
Other Calls: (978) 777-1100

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Toluene		108883	40-70	50 ppm	200 ppm	n/e
Hexane		110543	1-10	50 ppm	500 ppm	50 ppm (Canada)
Methyl ethyl ketone	MEK	78933	1-5	200 ppm	200 ppm	200 ppm (Canada)
Methylcyclopentane		96377	1-10	n/e	n/e	n/e
Hexane isomers		*	1-10	500 ppm	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit."n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Syrupy amber liquid with hydrocarbon odor.

DANGER! Extremely Flammable. Eye, skin and respiratory irritant. May cause central nervous system effects. Based on animal studies, potential reproductive effects.

Potential health effects

Primary routes of exposure: ☒ Skin contact ☐ Skin absorption ☒ Eye contact ☒ Inhalation ☐ Ingestion

Symptoms of acute overexposure:

Skin: Has a drying effect; may irritate.

Eyes: Irritant.

Inhalation:

Vapor irritates nose and throat. May cause acute central nervous system depression (headaches, dizziness, nausea, confusion).

Ingestion:

Gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis.

Effects of chronic overexposure:

Skin contact may cause dermatitis, headache and dizziness. Exposures to solvents may caused liver, brain, kidney, central and peripheral nervous systems damage. Exposure to MEK may inhance the neurotoxicity of n-hexane.

Carcinogenicity -- OSHA regulated: No **ACGIH: No** **National Toxicology Program: No**

International Agency for Research on Cancer: No

Cancer-suspect constituent(s) : None

Medical conditions which may be aggravated by exposure:

None reported. Possibly skin and respiratory disorders.

Other effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

4. FIRST AID MEASURES

First aid for eyes:

Flush with water while holding eyelids open for 15 minutes. If irritation persists, consult a physician.

First aid for skin:

Wash with soap and water; remove contaminated clothing. Get medical attention if irritation persists.

First aid for inhalation:

Remove victim to fresh air and consult a physician. Give oxygen or artificial respiration if breathing is difficult.

First aid for ingestion:

Administer two glasses of water to dilute. DO NOT INDUCE VOMITING. Contact a physician. If vomiting occurs, keep head above hips.

5. FIRE FIGHTING MEASURES

General fire and explosion characteristics:

Extremely flammable.

Extinguishing media:

☐ Water ☒ Carbon dioxide ☒ Dry chemical ☒ Foam ☒ Alcohol foam

Flash Point (°F): -9 **Method:** SFCC

Explosive limits in air (percent) -- Lower: 1.0 est **Upper:** 8.5 est

Special firefighting procedures:

Evacuate unprotected personnel. Firefighters should use full protective gear with self-contained breathing apparatus. Cool exposed containers with water spray to prevent bursting.

Unusual fire and explosion hazards:

Solvent vapors are heavier than air and may travel to a remote ignition source and flash back.

Hazardous products of combustion:

Carbon monoxide, carbon dioxide, smoke and unidentified organic decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:

Dike, contain and absorb with clay, sand or other suitable non-combustible material.

Cleanup:

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly (RCRA hazardous waste).

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Use non-sparking tools

7. HANDLING AND STORAGE

Handling precautions:

EXTREMELY FLAMMABLE! Do not breathe vapor or mist. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Close container after each use. Ground container when pouring. Keep away from heat, flame or sparks. Use non-sparking tools. Wear appropriate respiratory protection against decomposition products when welding the cured material.

Storage:

Keep in a cool place, without direct exposure to sunlight. Keep container tightly closed and otherwise in accordance with NFPA regulations. Maintain air space in storage containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation :

General mechanical ventilation is normally sufficient. For prolonged use in confined areas, provide local exhaust (explosion-proof). Ventilation must in any case keep vapor concentrations below the TLVs.

Other engineering controls :

Keep container tightly closed. Observe label precautions. Have emergency eye wash and safety shower present.

Personal protective equipment

Eye and face protection:

Safety glasses with side shields or splashproof goggles are recommended

Skin protection:

Chemical resistant rubber gloves and other protective gear as required to prevent skin contact.

Respiratory protection:

None required at normal handling temperatures. If exposed to vapor concentrations in excess of the TLV a NIOSH approved organic vapor respirator may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	0.9	**Boiling point (°F):**	149-231
Melting point (°F):	n/d	**Vapor density (air = 1):**	>1
Vapor pressure (mmHg):	n/d at 68 °F	**Evaporation rate (butyl acetate = 1):**	8.0
VOC (grams/liter):	673	**Solubility in water:**	Negligible
Percent volatile by volume:	83	**pH (5% solution or slurry in water):**	7
Percent solids by weight:	17		

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid :
Avoid heat (>115 F), open flame and sparks.

Incompatible materials:
Strong oxidizing agents. Alkaline materials.

Hazardous products of decomposition:
Oxides of carbon, smoke and unidentified organic decomposition products.

Conditions under which hazardous polymerization may occur:
None

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): No data available.

Acute dermal effects: LD50 (rabbit): No data available.

Acute inhalation effects: LC50 (rat): No data available. Exposure: hours.

Eye irritation:
No data.

Subchronic effects:
No data.

Carcinogenicity, teratogenicity, and mutagenicity:
Based on animal studies, excessive overexposure to toluene may cause reproductive effects. There is no evidence that inhaled toluene is carcinogenic in animals or humans. Deliberate inhalation of high concentrations of toluene vapor by pregnant women has been shown to adversely affect the fetus. These fetotoxic effects include intrauterine growth retardation and delayed postnatal development. The fetotoxic effects of toluene seen in laboratory animals are similar to those seen in humans.

Other chronic effects:

Toluene has been found to cause kidney, lung and spleen damage in laboratory animals. Laboratory studies involving rats indicate some evidence that MEK may be embryotoxic, fetotoxic and teratorgenic.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
Toluene	636 mg/kg	14100 uL/kg	n/d
Hexane	28710 mg/kg	n/d	n/d
Methyl ethyl ketone	2737 mg/kg	6480 mg/kg	33234 mg/m^3
Methylcyclopentane	1540 mg/kg	n/d	n/d
Hexane isomers	n/d	n/d	n/d

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION

Ecotoxicity:

No data available

Mobility and persistence:

No data available.

Environmental fate:

No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:

Do not dispose of in a landfill. Incineration is the preferred method of disposal.

14. TRANSPORT INFORMATION

Proper shipping name: Adhesives
Technical name : N/A
Hazard class : 3
UN number: 1133
Packing group: II
Emergency Response Guide no.: 128
IMDG page number: N/A
Other: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.
Export notification is required under TSCA Sec. 12B -- see below.

The following RCRA code(s) applies to this material if it becomes waste:

D001, D035

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Toluene	No	Yes	1000.0	Not required
Hexane	No	Yes	5000.0	Not required
Methyl ethyl ketone	No	Yes	5000.0	Not required
Methylcyclopentane	No	No	0.0	Required
Hexane isomers	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Fire hazard -

Canadian regulations

WHMIS hazard class(es) : B2; D2B; D2A
All components of this product are on the Domestic Substances List.

California regulations:

For purposes of the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop. 65), this product contains a chemical or chemicals known to the State of California to cause reproductive toxicity:

16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health	Flammability	Reactivity
	2*	3	0

The information and recommendations in this document are based on the best information available to us at the time of preparation, but we make no other warranty, express or implied, as to its correctness or completeness, or as to the results of reliance on this document.