1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro(R) Contact Cement
Item No.: 81524
Part No.: CC-9
Product Type: Adhesive

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Light aliphatic solvent naphtha	64742-89-8	30-35
TOLUENE*	108-88-3	20-25
ACETONE	67-64-1	15-20
n-HEXANE*	110-54-3	5-10
Neoprene	9010-98-4	Unknown
Synthetic resin	Proprietary	Unknown
METHYL ETHYL KETONE*	78-93-3	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Light aliphatic solvent naphtha	None	None	300ppm
TOLUENE	50 ppm skin 188 mg/M3 skin	100 ppm 375mg/M3	None
ACETONE	500 ppm TWA 1188 mg/m3	1000 ppm TWA 2400 mg/m3	None
n-HEXANE	50 ppmTWA(skin)	500 ppm TWA 1800 mg/M3	None
METHYL ETHYL KETONE	200 ppm TWA 590 mg/m3	200 ppm TWA 590 mg/m3	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
TOLUENE	None	150 ppm 560mg/M3
ACETONE	750 ppm 1782 mg/m3	None
METHYL ETHYL KETONE	300 ppm 885 mg/m3	300 ppm 885 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Ingestion can cause gastrointestinal irritation, nausea vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Eye contact can cause severe irritation, redness, tearing, blurred vivion. Prolonged or repeated skin contact can cause moderate irritation, defatting, dermatitis. Can be absorbed through the skin.
Overexposure to components has apparently been found to cause the following effects in laboratory animals: Kidney damage, eye damage, liver abnormalities, lung damage, spleen damage, brain damage. Overexposure to components has been suggested as a cause of the following effects in humans: Liver abnormalities, central nervous system damage, damage to peripheral nerve tissue resulting in muscular weakness and loss of sensation in the extremities, brain cell damage.

Primary Routes of Entry: Skin, eye, ingestion, inhalation

3. HAZARDS IDENTIFICATION (continued)

Signs and Symptoms of Exposure: Vapors can irritate eyes, nose, throat and skin and can cause headache, nausea, dizziness, weakness, fatigue. Vomiting and diarrhea from ingestion. Redness, tearing of eyes, blurred vision

Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
Light aliphatic solvent naphtha	NTO	NO	NO	NO
TOLUENE	BEH CAR CNS DEV EAR IRR	NO	NO	NO
ACETONE	BLO CNS IRR	NO	NO	NO
n-HEXANE	DEV IRR LUN NER REP	NO	NO	NO
Neoprene	NTO	NO	N/A	NO
Synthetic resin	No Data	NO	NO	NO
METHYL ETHYL KETONE	CNS IRR	NO	N/A	NO

Abbreviations

N/A Not Applicable
BLO Blood
CNS Central nervous system
EAR Ear
LUN Lung
NTO No Target Organs
BEH Behavioral
CAR Cardiac
DEV Developmental
IRR Irritant
NER Nervous System
REP Reproductive

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep warm quiet and get medical attention. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Inhalation: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artifical respiration. Keep person warm, quiet, and get medical attention

Skin Contact: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Eye Contact: Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Less than 0.F Method: Setaflash

Recommended Extinguishing Agents: Use foam, carbon dioxide, water fog, or dry chemical fire fighting apparatus.

Special Firefighting Procedures: Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes. Avoid breathing vapors or fumes.

Hazardous Products formed by Fire or Thermal Decomp Fumes, smoke, oxides of carbon.

Unusual Fire or 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

5. FIRE FIGHTING MEASURES (continued)

motors, static discharge or other ignition sources at locations distant from material handling point.

Explosive Limits:
(% by volume in air)Lower 1.1%
(% by volume in air)Upper 12.8%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove all ignition sources. Keep people away. Recover free liquid. Add absorbent (sand, earth, sawdust, etc.) to spill area. Avoid breathing vapors. Ventilate confined spaces. Open all windows and doors. Use non-sparking tools (shovels scrapers, etc.). Keep petroleum products out of sewers and water courses by diking or impounding. Advise authorities if product has or may enter sewers.

7. HANDLING AND STORAGE

Safe Storage: Keep container closed when not in use. Do not store near heat, sparks, flame, or oxidizing agents.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid breathing vapors. Keep away from eyes. Avoid prolonged skin contact. Do not handle near heat, sparks, flame, or strong oxidizers. Containers of this material may be hazardous when empty since emptied containers retain product residue (vapor, liquid, and solid). Never use welding or cutting torch on or near container (even when empty) because product (even just residue) can ignite expolsively. All hazard precautions given in data sheet must be observed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Use splash goggles or face shield.
Skin: Use chemical resistant gloves. Use chemical resist resistant apron or other clothing, if needed, to avoid repeated or prolonged skin contact.
Ventilation: Sufficient local exhaust to maintain vapor exposure below TLV, PEL, or STEL. Use explosion proof mechanical equipment. No smoking or open lights should be permitted.
Respiratory Use NIOSH approved hydrocarbon vapor cannister or supplied air respiratory protection in confined or enclosed spaces or where vapor concentration exceeds TLV, PEL, or STEL.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber medium syrup
Odor:	Petroleum
Boiling Point:	134_F
pH:	Does not apply
Solubility in Water:	Negligible
Specific Gravity	0.81
Volatile Organic Compound (EPA Method 24)	60.6%; 492 grams per liter
Vapor Pressure:	120mm Hg
Vapor Density:	2.7
Evaporation Rate (Ether = 1)	More than 1

Product Name: Duro(R) Contact Cement
Item No.: 81524

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizing agents, strong alkalies, strong acids, or bases.
Conditions to Avoid: None
Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Small spill- Allow volatile portion to evaporate in well ventilated area. Dispose of remaining material in accordance with applicable regulations Large spill- Dispose of material or contaminated absorbent in accordance with local, state, or federal regulations.

EPA Hazardous Waste Number: D001/D035 - Hazardous waste per 40CFR 261.21 and a TCLP waste per 261.24/Methyl Ethyl Ketone.

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity (Not more than one liter); Adhesives (More than one liter)
Hazard Class or Division: ORM-D (Not more than one liter); Class 3, Packing Group II (More than one liter)
Identification Number: None (Not more than one liter); UN 1133 (More than one liter)
Marine Pollutant: None

IATA
Proper Shipping Name: Consumer Commodity (Not more than 500 ml); Adhesives (More than 500 ml)
Class or Division: Class 9 (Not more than 500 ml); Class 3, Packing Group II (More than 500 ml)
UN or ID Number: UN 1133 (More than 500 ml) ID 8000 (Not more than 500 ml);

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.

16. OTHER INFORMATION (continued)

HMIS is a registered trademark of the National Paint and Coatings Assn.

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