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<b>H.M.I.S.</b>	
<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	
These ratings should be used only as part of fully implemented H.M.I.S. program.	

# MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION 6/2000

## SECTION I

**TRADE NAME:** DURO DYNE SOLVENT BASED ADHESIVE  
**MANUFACTURER CODE I.D.:** RPG

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PERCENT %	OSHA PEL PPM	ACGIH TLV	OSHA, ACGIH STEL PPM	SARA	VP mmHg @20°C
CHLORINATED PARAFFIN	63449-39-8	1-5				x	Nil
METHYLCYCLOPENTANE	96-37-7	10-30					
n-HEXANE	110-54-3	50-70	50	50	1000	x	120
TOLUENE*	108-88-3	5-10	100	50	150	x	24
ACETONE	67-64-1	10-30	750	750	1000		180

### STEL= SHORT TERM EXPOSURE LIMIT

**\*SKIN ABSORPTION MAY POTENTIALLY CONTRIBUTE TO THE OVERALL EXPOSURE TO THIS MATERIAL. APPROPRIATE MEASURES SHOULD BE TAKEN TO PREVENT ABSORPTION SO THAT THE TLV IS NOT INVALIDATED.**

## SECTION III - HEALTH INFORMATION

**EYES:** Contact with the product or high vapor levels will cause irritation.

**SKIN:** Liquid contact will dry and defat the skin. Prolonged or repeated contact may cause irritation.

**INHALATION:** Overexposure to vapors in poorly ventilated areas will cause irritation of the nose, throat and respiratory tract and it may also cause dizziness, headaches, nausea or unconsciousness.

**INGESTION:** Harmful if swallowed.

**CHRONIC:** Chlorinated Paraffin has been identified as an animal carcinogen in feeding studies with laboratory animals. n-Hexane has been demonstrated to cause peripheral nerve damage in overexposed workers. Symptoms include loss of feeling and weakness in the hands and feet and loss of manual dexterity.

Overexposure to Toluene may cause female and male reproductive disorders, based on tests with laboratory animals.

Current exposure guidelines are expected to protect from these effects.

Long-term overexposure to solvents may cause liver and kidney damage. Some solvents may cause damage to the nervous system.

**REGULATED CARCINOGEN STATUS:** Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

## SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

**EYES:** Flush immediately with large amounts of water for at least 15 minutes. Call a physician.

**SKIN:** Wash affected area with soap and water. Launder contaminated clothing before reuse.

**INHALATION:** Remove from exposure. Restore breathing if necessary. Keep warm and quiet. Call a physician.

**INGESTION:** If person can swallow, give one glass of water or milk. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

## SECTION V - PHYSICAL DATA

**PHYSICAL STATE:** Liquid

**COLOR:** Red to standard

**% SOLIDS BY WEIGHT:** 28

**BOILING RANGE:** Greater than 156°F (69°C)

**ODOR:** Solvent

**WEIGHT PER GALLON:** 6.5 Lbs.

**SPECIFIC GRAVITY:** .77

**VOC:** N.E.

**VOC, LESS WATER:** 535g VOC/liter of material, less water and exempt solvents

**PH:** N.E.

**ODOR THRESHOLD:** N.E.

**FREEZING / MELTING POINT:** N.E.

**VAPOR DENSITY:** N.E.

**VAPOR PRESSURE:** N.E.

**EVAPORATION RATE:** N.E.

**OIL / WATER PARTITION COEFFICIENT:** N.E.

## SECTION VI - FIRE AND EXPLOSION DATA

**U.E.L. / L.E.L.:** N.E.

**AUTOIGNITION TEMPERATURE:** N.E.

**APPROPRIATE EXTINGUISHERS:** Use water spray, foam, dry or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Solvent vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**HAZARDOUS COMBUSTION PRODUCT:** Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide, hydrogen chloride, phosgene.

## SECTION VII - REACTIVITY DATA

**FLASH POINT / METHOD:** 10°F Pensky-Martens, -12°C

**STABILITY:** Stable

**HAZARDOUS DECOMPOSITION:** Hydrogen chloride, phosgene

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION VIII - ENVIRONMENTAL INFORMATION

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition

Ventilate area

Avoid breathing vapors

Dike and contain spill with inert absorbent and transfer to container for disposal

Use non-sparking tools

Keep spill out of sewers

### DISPOSAL CONSIDERATIONS

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your State, Local or Provincial Authorities for more restrictive requirements.

## SECTION IX - HANDLING INFORMATION

Keep away from heat, sparks and flame

Avoid breathing vapors

Use only with adequate ventilation

Avoid contact with eyes, skin and clothing

Wash thoroughly after handling

Keep container closed

Emptied containers retain vapors and product residue

Observe all labeled precautions until container is cleaned

**DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

## SECTION X - PERSONAL PROTECTION INFORMATION

**EYE PROTECTION:** Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing or dusting is likely. Have eye washes available where eye contact can occur.

**SKIN PROTECTION:** Prevent contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

**RESPIRATORY PROTECTION:** Use NIOSH approved supplied air respirator if conditions warrant.

**VENTILATION:** Local exhaust ventilation preferred. Provide ventilation to control contaminant levels below airborne exposure limits.

## SECTION XI - OTHER INFORMATION

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.**