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<b>H.M.I.S.</b>	
<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</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 ASA - MULTI PURPOSE SPRAY-ON ADHESIVE  
**MANUFACTURER CODE I.D.:** ASA

## SECTION II - HAZARDOUS INGREDIENTS

<b>INGREDIENT % BY WEIGHT</b>	<b>CAS NO.</b>	<b>OSHA PEL-TWA</b>	<b>ACGIH TLV-TWA</b>	<b>Other Limits Recommended</b>
HEPTANE	142-82-5	400 ppm	400 ppm	NA
ISOBUTANE	75-28-5	NE ppm	NE ppm	800 ppm (Aeropress)
PROPANE	74-98-6	1000 ppm	NE ppm	1000 ppm (NIOSH)

## SECTION III - PHYSICAL/CHEMICAL DATA

**BOILING POINT (F):** (CONC.) 94°  
**VAPOR PRESSURE:** @ 70°F: 45 psig  
**VAPOR DENSITY:** (Air =1), >1  
**SOLUBILITY IN WATER:** Insoluble  
**APPEARANCE & ODOR:** Cloudy, white liquid with petroleum solvent odor.

**SPECIFIC GRAVITY (H2O =1):** .60  
**MELTING POINT:** N.E.  
**EVAPORATION RATE:** >1  
(Butyl Acetate =1)

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASHPOINT :** (°F): < 0 TOC  
**U.E.L./ L.E.L.:** N.E.  
**EXTINGUISHING MEDIA:** Water, water fog, dry chemical, CO2.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained respiratory protection should be provided for firemen fighting in buildings or confined areas.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Aerosols are under pressure. Exposure in excess of 120°F may cause bursting of can.

## SECTION V - REACTIVITY DATA

**STABILITY:** Stable.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents and alkalis.  
**HAZARDOUS DECOMPOSITION :** Burns to form CO2, CO, and possible incompletely decomposed materials.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** High temperatures.

## SECTION VI - HEALTH HAZARD DATA

### **ROUTES OF ENTRY:**

**INHALATION?** YES    **SKIN?** YES    **INGESTION?** YES

**HEALTH HAZARDS (ACUTE & CHRONIC):** Fumes can irritate eyes. Overexposure may cause nausea, headache, dizziness. May be harmful or fatal if ingested.

**CARCINOGENITY: NTP?** NO    **IARC MONOGRAPHS?** NO    **OSHA REGULATED?** NO

**SIGNS & SYMPTOMS OF EXPOSURE:** May cause eye and skin irritation. Concentrated vapors may cause nausea, headaches or dizziness.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known.

**EMERGENCY & FIRST AID PROCEDURES:** Flush eyes with water. Wash skin with soap and water. Remove patient to fresh air. Call a physician if necessary.

## SECTION VII - DISPOSAL INFORMATION

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

Avoid inhalation of concentrated vapors. Absorb spilled material with appropriate absorbent.

### **WASTE DISPOSAL METHOD**

Dispose of all wastes in accordance with Local, County, State and Federal Regulations.

## SECTION VIII - HANDLING INFORMATION

### **PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE**

Keep away from heat, sparks, open flame or direct sunshine. Do not puncture or incinerate container.

### **PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling vapor contents can be harmful or fatal.

## SECTION IX - PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Not necessary under normal usage.

**SKIN:** Neoprene and rubber gloves suggested.

**EYES:** Wear safety goggles, glasses or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Plastic apron suggested. Wash thoroughly with soap and water after handling.

## SECTION X - DOT SHIPPING INFORMATION

**PROPER SHIPPING NAME:** Consumer Commodity, Pressurized Aerosol Cans

**HAZARD CLASS:** ORM-D