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H.M.I.S.	
HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	See Below
These ratings should be used only as part of fully implemented H.M.I.S. program.	

# MATERIAL SAFETY DATA SHEET

PREPARED BY DURO DYNE 6/2005  
REVISED 5/2005

## SECTION I

**TRADE NAME:** DURO DYNE ASA-W - MULTI PURPOSE SPRAY-ON ADHESIVE  
**MANUFACTURER CODE I.D.:** ASA-W

## SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL & COMMON NAME(s)	CAS NO.	TLV-TWA	VAPOR PRESSURE @ 25° C	LEL	UEL	FLASH POINT DEGREES	% BY WEIGHT	SARA TITLE III
ACETONE	67-64-1	750 ppm	185 mmHg	2.6	12.8	- 4(TCC)	30 - 50	NO
HEXANE	110-54-3	50 ppm	140 mmHg	1.2	7.5	< 0(TCC)	30 - 50	YES
PROPANE/ ISOBUTANE (Propellant)	68-476-85-7	800 ppm	3691 mmHg	2.0	10.0	- 138(TCC)	30 - 50	NO

## SECTION III - PHYSICAL/CHEMICAL DATA

**BOILING POINT:** (°F): Concentrate: 132-159  
Propellant: 21.6

**SPECIFIC GRAVITY:** (Water=1): Concentrate: 0.70  
Propellant: 0.54

**VAPOR DENSITY:** (Air=1), >1

**EVAPORATION RATE:** (BA = 1) : >1

**APPEARANCE & ODOR:** Concentrate: Amber liquid w/  
characteristic odor.

(Butyl Acetate =1)

Propellant: Clear odorless gas.

**SOLUBILITY IN WATER:** Slight

Finished Package: Pressurized containers.

**REACTIVITY IN WATER:** None

**PERCENT VOLATILE BY WEIGHT:** Approx. 80

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**EXTINGUISHING MEDIA:** Carbon dioxide, Foam, Dry chemical

**AUTO-IGNITION TEMPERATURE:** Unknown

**SPECIAL FIRE FIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure build up and possible bursting when exposed to high temperatures. Firemen should wear self-contained respiratory protection.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable. Contents under pressure. Do not store or use near heat or ignition sources. Containers may burst at temperatures above 130°F.

## SECTION V - REACTIVITY DATA

**STABILITY:** Stable

**CONDITIONS TO AVOID:** N/A

**INCOMPATIBILITY (Materials to avoid):** Nitric plus Acetic Acids, Nitric plus Sulfuric Acid, Amines  
Strong Oxidizing Agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, Carbon dioxide

**HAZARDOUS POLYMERIZATION:** Will not occur.

## SECTION VI - HEALTH HAZARDS DATA

### SIGNS & SYMPTOMS OF EXPOSURE:

**EYES:** May cause moderate corneal injury and eye. Vapors may irritate eyes.

**SKIN:** Prolonged contact may cause irritation, defatting of skin.

**INHALATION:** May cause nose & throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Repeated & prolonged overexposure to solvents may lead to permanent brain and nervous system damage.

**INGESTION:** If aspirated (liquid enters the lungs), it may be rapidly absorbed through the lungs and result in injury to other body systems. Gastro-intestinal distress.

**CARCINOGENICITY:** NTP: no IARC: no OSHA: no

## SECTION VII- EMERGENCY AND FIRST AID

**INHALATION:** Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**EYES:** Flush with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

**SKIN:** Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

**INGESTION:** Do not induce vomiting. Call a physician immediately.

**IMPORTANT NOTICE :** *Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination are signs that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.*

**CHRONIC EFFECTS:** *This product contains n,Hexane. Overexposure may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs.*

*Simultaneous exposure to the vapors of n,Hexane and Methyl ethyl ketone (MEK) or to n,Hexane and Methyl isobutyl ketone (MIBK) above the recommended workplace limits increases the risk of adverse effects from n,Hexane. Evidence in laboratory animals and humans indicated that in the presence of MEK or MIBK, the neuropathy associated with n,Hexane is produced in a shorter period of time or at lower exposure concentrations. There is no reported human evidence that these neurotoxic effects occur when exposure to these chemicals is maintained below established OSHA and ACGIH limits.*

## SECTION VIII - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Do not store above 120°F. Avoid breathing vapors. Avoid prolonged or repeated contact with skin.

**OTHER PRECAUTIONS: EXTREME FLAMMABLE.** Do not use or store near open flames, heat, or any sources of ignition. Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

## SECTION IX - CONTROL MEASURES

**VENTILATION LOCAL EXHAUST:** To keep below TLV

**MECHANICAL:(GENERAL):** To keep below TLV

**OTHER:** NO

**SPECIAL:** NO

**PROTECTIVE GLOVES:** Solvent resistant gloves - impervious gloves.

**EYE PROTECTION:** Wear safety goggles, glasses.

**OTHER PROTECTIVE EQUIPMENT:** None reasonably foreseeable.

**RESPIRATORY:** NIOSH or bureau of mines approved organic vapor-type respirator is required in absence of proper environmental control.

## SECTION X - SPILL/LEAK PROCEDURES

### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

**SMALL SPILLS:** Remove ignition sources. Mop up, wipe up, or soak up immediately, use proper protective equipment.

**LARGE SPILLS:** Evacuate area. Remove ignition sources. Contain liquid, transfer to closed containers, keep out of water supplies.

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

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