

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
SPECIAL HAZARD	NONE

### **SAFETY DATA SHEET**

Prepared by Duro Dyne December 20, 2013

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Trade name:** DURO DYNE ADHESIVE

**Product Identifier:** PAC40 **Item #:** 5094

**Supplier Details:** DURO DYNE CORPORATION

81 Spence Street

Bay Shore, NY 11706

Information

**Phone No:** 800-899-3876

**Emergency** 

**Phone No:** 800-424-9300 (CHEMTREC)

## 2. HAZARDS IDENTIFICATIONS

2.1 Emergency Overview:

Immediate Health, Physical and

Environmental Hazards: Closed containers exposed to heat from fire may build

pressure and explode. Extremely flammable liquid and

vapor.

Contains a chemical or chemicals which can cause

cancer. May cause target organ effects.

2.2 Potential Health Effects:

**Eye Contact:** Moderate Eye Irritation: Signs/symptoms may include

redness, swelling, pain, tearing, and blurred or hazy

vision.

**Skin Contact:** Moderate Skin Irritation: Signs/symptoms may include

localized redness, swelling, itching, and dryness.

**Inhalation:** Respiratory Tract Irritation: Signs/symptoms may

include cough, sneezing, nasal discharge, headache,

hoarseness, and nose and throat pain.

Intentional concentration and inhalation may be

harmful or fatal.

May be absorbed following inhalation and cause target

organs effects.

**Ingestion:** Gastrointestinal Irritation: Signs/symptoms may include

abdominal pain, stomach upset, nausea, vomiting and

diarrhea.

May be absorbed following ingestion and cause target

organ effects.

**Target Organ Effects:** Central Nervous System (CNS) Depression:

Signs/symptoms may include headache, dizziness, uncoordinated, nausea, slowed reaction time, slurred

speech, giddiness and unconsciousness.

**Prolonged or Repeated Exposure** 

**May Cause:** 

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal

tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	C.A.S. No.	% by Wt.	
Methyl Acetate	79-20-9	50-60%	
Hexane	110-54-3	1-5%	
1,1-Difluorethane	75-37-6	<1%	
Dimethyl Ether	115-10-6	<1%	
Propane	74-98-6	<1%	
Isobutane	75-28-5	<1%	

### 4. FIRST AID MEASURES

#### **4.1 First Aid Procedures**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed:

**Eye Contact:** Flush eyes with large amounts of water. If

signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately

flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes

before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop,

get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by

medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious

person. Get medical attention.

#### 5. FIRE FIGHTING MEASURES

## **5.1 Flammable Properties**

Flammability: Flammable per ASTM E-681-04.

**Auto ignition Temperature:**No Data Available. **Flash Point:**-156°F (-104°C).

Flammable Limits-LEL: 1.8 Flammable Limits-UEL: 18

**5.2 Extinguishing Media:** Use fire extinguishers with class B extinguishing agents

(e.g. dry chemical, carbon dioxide).

**5.3 Protection of Fire Fighters:** 

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it

should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-

contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Flammable liquid and vapor. Closed containers exposed

to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or

floor to an ignition source and flash back.

#### 6. ACCIDENTAL RELEASE MEASURE

Accidental Release Measures: Evacuate unprotected and untrained personnel from

hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spills, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

Warning! A motor could be an ignition source and

warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with fire-

extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of in accordance with local, state and federal laws and regulations.

### 7. HANDLING AND STORAGE

### 7.1 Handling:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid breathing of vapors, mists or spray. Avoid eye contact with vapors, mists, or spray. Keep out of reach of children. Vapors may ignite explosively. May cause flash fire. Prevent build up of vapors-open all windows and doors. Maintain vapor concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapors may settle in lowlying areas. Do not smoke or ignite matches, lighters, etc. Use general ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure limits. If ventilation is not adequate, use respiratory protection equipment.

7.2 Storage:

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container tightly closed. Store away from oxidizing agents.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **8.1 Engineering Controls:**

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use in an enclosed process area is recommended. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control

airborne exposures to below Occupational Exposure Limits and/or control mist, vapor or spray. If ventilation

is not adequate use protection equipment.

**8.2** Personal Protective Equipment (PPE):

**Eye/Face Protection:** Avoid eye contact with vapors, mists or spray. The

following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

**Skin Protection:** Avoid skin contact. Select and use gloves and/or

protective clothing to prevent skin contact based on the results of an exposure assessment. Gloves made from the following material(s) are recommended: Polyvinyl Alcohol (PVA), Polyethylene/Ethylene Vinyl Alcohol.

**Respiratory Protection:** Avoid breathing vapors, mists or spray.

**Prevention of Swallowing:** Do not eat, drink or smoke when using this product.

Wash exposed areas thoroughly with soap and water.

**8.3 Exposure Guidelines** 

INGREDIENT	AUTHORITY	TYPE	LIMIT	ADDITIONAL INFORMATION
Hexane	ACGIH	TWA	50 ppm	Skin Notation
Hexane	OSHA	TWA, Vacated	50 ppm	Table Z-1A
Hexane	OSHA	TWA	500 ppm	Table Z-1A
Methyl Acetate	ACGIH	TWA	200 ppm	
Methyl Acetate	ACGIH	STEL	250 ppm	
Methyl Acetate	OSHA	TWA	200 ppm	Table Z-1A
Methyl Acetate	OSHA	STEL	250 ppm	Table Z-1A
1, 1-Difluoroethane	AIHA	TWA	1000 ppm	
1, 1-Difluoroethane	CMRG	TWA	1000 ppm	
Dimethyl Ether	AIHA	TWA	1000 ppm	
Dimethyl Ether	CMRG	TWA	1000 ppm	
Isobutane	ACGIH	TWA	1000 ppm	
Propane	ACGIH	TWA	1000 ppm	
Propane	OSHA	TWA	1000 ppm	Table Z-1

## Sources of Exposure Limit Data:

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)
CMRG	Chemical Manufacturer Recommended Guideline
EPA	Environmental Protection Agency
IARC	International Agency for the Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Odor, Color:** Organic solvent odor, clear in color.

**Auto Ignition Temperature:** No Data Available

% Glue Solids:  $43 \pm 2\%$ Boiling Point: -44°F (-42°C)

Specific Gravity:  $.96 \text{ gm/cc} \pm .02 \text{ gm/cc} (8.0 \text{ lb/gal} \pm .2 \text{ lb/gal})$ 

**Solubility in Water:**% VOC:

% VOC, less Water, less Exempt Solvents:

Negligible
< 5% by weight
< 80 gm/liter</pre>

### 10. STABILITY AND REACTIVITY

Stability: Stable.

**Materials and Conditions to Avoid:** Sparks and/or flames.

**Hazardous Polymerization :** Hazardous polymerization will not occur.

### **Hazardous Decomposition or By-Products:**

**Substances** Condition

Aldehydes During Combustion
Hydrocarbons During Combustion
Carbon Monoxide During Combustion
Carbon Dioxide During Combustion
Irritant Vapors and Gases During Combustion

### 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:** No data available.

### 12. ECOLOGICAL INFORMATION

Not determined.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator.

As a disposal alternative, dispose of waste product in a

permitted hazardous waste facility.

### 14. TRANSPORTATION INFORMATION

# \*\*\*\*\* HAZ MAT \*\*\*\*\*

UN3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (1,1 Difluoroethane, Methyl Acetate), 2.1

### 15. REAGULATORY INFORMATION

**US Regulatory Information** 

311/312 Hazard Categories: Fire Hazard: Yes

Pressure Hazard: Yes Reactivity Hazard: No Immediate Hazard: Yes **Delayed Hazard**: Yes

**Section 313 Toxic Chemicals Subject to the Reporting Requirements of that Section** 

and 40 CFR part 372 (EPCRA): Ingredient: Hexane

C.A.S. No.: 110-54-3 % by Wt.: 1-5 %

**Chemical Contained within Material which** requires Export Notification under TSCA

Section 12(b): Ingredient: Hexane

C.A.S. No.: 110-54-3

Regulation: Toxic Substances Control Act (TSCA) 4

Test

Status: Applicable

**Ingredient**: Methyl Acetate

**C.A.S.**: 79-20-9

Regulation: Toxic Substances Control Act (TSCA) 4

Test

Status: Applicable

**State Regulations** 

California Proposition 65: None.

16. OTHER INFORMATION

Hazard Rating: Health: 1

Flammability: 3 Reactivity: 0

Special Hazard: None

**Date SDS Prepared:** 8/10/2012

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