

# MATERIAL SAFETY DATA SHEET: WELD-ON 2747 FOR PVC SOLVENT

Issue Date: 04.07.05      Rev: 2

## 1. IDENTIFICATION OF PREPARATION AND COMPANY

**Product name** : WELD-ON 2747 for PVC Plastic Pipe

**Product use** : Solvent Cement for PVC Plastic Pipes

### EU Suppliers Name and Address:

International Plastic Systems Limited  
Seaham Grange Industrial Estate  
Seaham  
County Durham  
SR7 0PT

Tel: 0191-5213111      Fax: 0191-5213222

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Approx %	Symbols	Risk Phrases	Safety Phrases	CAS No.	Index no.
Polyvinyl Chloride Resin (PVC)						
Tetrahydrofuran		F, Xi	R 11-19-36/37	S (2-)16-29-33	109-99-9	603-025-00-0
Methyl Ethyl Ketone	18	F, Xi	R 11-36-66/67	S (2-)9-16	78-93-3	606-002-00-3
Cyclohexanone	1-5	Xn	R 10-20	S (2-)25	108-94-1	606-010-00-7

## 3. HAZARD IDENTIFICATION

Flammable, irritant.

## 4. FIRST AID MEASURES

### Inhalation

If overcome by vapours, remove to fresh air and if breathing stopped, give artificial respiration preferably, mouth-to-mouth. If breathing is difficult give oxygen. Do not smoke. Obtain medical attention.

### Eye contact

Flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.

### Skin contact

Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, obtain medical attention.

### Ingestion

Give 1 or 2 glasses of water or milk. Do not induce vomiting. Obtain immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

### Fire Extinguishing Agents

Water spray, carbon dioxide and dry powder

### Special precautions

Evacuate enclosed areas, stay upwind. In confined space use self-contained breathing apparatus, positive pressure hose masks or airline masks (long-breathers). Use water spray to cool containers, to flush spills from source of ignition and to disperse vapours.

## 6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Avoid breathing of vapours. Wear appropriate protective clothing. Keep liquid out of eyes. Flush with large amounts of water. Contain liquid with sand or earth. Absorb with sand or non-flammable absorbent material and transfer into steel drums for recovery or disposal. Prevent liquid from entering the drains soil or groundwater. If significant material enters surface drains inform local authorities, including fire service.

## 7. HANDLING AND STORAGE

Store in the shade between 5°C and 40°C in a well ventilated area with adequate means of containment. All handling equipment should be electrically grounded. Keep away from heat, sparks, open flame or other sources of ignition. Avoid prolonged breathing of vapour (refer to Exposure Controls). Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Workplace Exposure Limits

Tetrahydrofuran 50ppm (long term) & 100ppm (short term), can be absorbed through the skin; Methyl Ethyl Ketone (butanone) 200ppm (long term) & 300ppm (short term); Cyclohexanone 10ppm (long term) & 20ppm (short term), can be absorbed through the skin.

NOTE: Long term = 8 hour TWA Reference period & Short term = 15 minute reference period

### Respiratory Protection

Explosion proof general mechanical ventilation is recommended to maintain vapour concentrations below safe working limits. In situations where vapour concentrations exceed safe working limits, a self-contained breathing apparatus should be worn.

### Hand protection

PVA coated or nitrile protective gloves

### Eye Protection

Splash-proof chemical goggles

### Skin Protection

Impervious apron and source of running water to wash eyes or skin in case of contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Blue – fades to clear in sunlight
<b>Odour</b>	Ethereal
<b>Boiling Point</b>	151 F, (67°C) based on first boiling point component i.e. THF
<b>Flashpoint</b>	6 F T.C.C based on first boiling component i.e. THF
<b>Flammability</b>	Highly Flammable Vapour / air mixture explosive
<b>Vapour pressure</b>	143 mm Hg at 20°C - based on first boiling component i.e. THF
<b>Vapour density</b>	2.49 (Air = 1)
<b>Specific gravity @ 20°C</b>	0.946 ± 0.040
<b>Percentage volatile by volume</b>	80-90%
<b>Solubility in water</b>	Solvent portion completely soluble in water. Resin portion separates out.

## 10. STABILITY AND REACTIVITY

Fire hazard because of low flash point and high volatility. Vapours are heavier than air and may travel to source of ignition. Keep away from heat, sparks, open flame and other sources of ignition.

No reaction with water.

### Materials to avoid

Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidants and isocyanates.

### Hazardous Decomposition Products

When forced to burn, this product gives off carbon dioxide, carbon monoxide, hydrogen chloride and smoke.

## 11. TOXICOLOGICAL INFORMATION

### Primary routes of entry

Inhalation and skin contact.

### EFFECTS OF OVEREXPOSURE

#### ACUTE

##### Inhalation

Severe overexposure may result in nausea, dizziness and headache. Can cause drowsiness, irritation of eyes and nasal passages.

##### Skin contact

Skin irritant. Liquid contact may remove natural skin oils resulting in irritation. Dermatitis may occur with prolonged skin contact.

##### Skin absorption

Prolonged or widespread exposure may result in severe eye injury with conjunctiva inflammation on contact with the liquid. Vapours slightly uncomfortable.

##### Ingestion

Moderately toxic. May cause nausea, vomiting, diarrhoea. May cause mental sluggishness.

#### CHRONIC

Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 days. Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.

## 12. ECOLOGICAL INFORMATION

None of the components of the preparation are classified as dangerous to the environment. However care should be taken to prevent material entering surface drains.

## 13. DISPOSAL CONSIDERATIONS

Dispose of through local authorities if appropriate facilities are available, otherwise transfer to chemical disposal company.

## 14. TRANSPORT INFORMATION

<b>Proper Shipping Name</b>	Adhesive	<b>Class Number</b>	3	<b>Pkg. Group</b>	II
<b>UN Number</b>	1133	<b>Hazard Identification No</b>	33	<b>Special Provisions</b>	185 & 187 apply
<b>Emergency Action Code</b>	3YE				
<b>Special Provisions</b>	185 & 187 apply				

## 15. REGULATORY INFORMATION

<b>Symbols</b>	:	F, Xi	
<b>Risk phrases</b>	:	R11 R19 R20 R36 R66 R67	Highly flammable May form explosive peroxides Harmful by inhalation Irritating to eyes and respiratory system Repeated exposure may cause skin dryness or cracking Vapours may cause drowsiness or dizziness
<b>Safety phrases</b>	:	S2 S9 S16 S25 S29 S33	Keep out of reach of children (obligatory statement if sold to the general public) Keep container in a well ventilated place Keep away from sources of ignition - no smoking Avoid contact with the eyes Do not empty into drains Take precautionary measures against static discharges

## 16. OTHER INFORMATION

No additional information.

The data contained in this Safety Data Sheet has been supplied as required by the **Chemicals (Hazard Identification and Packaging for Supply) Regulations 2002**, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

*Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.*