

# UNIVERSAL SEALANTS (UK) LIMITED

## NUFINS DIVISION

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### 1. Product Identification

**Trade Name:** DESOLVE

**Description:** Solvent emulsion.

### 2. Composition / Information on Ingredients

Ingredient	CAS Number	Conc. (w/w)	Classification	R. Phrases
Solvent Naptha	64742-95-6	25-40%	F,Xn,N	10,65,66,67,51/53
1,2,4-Trimethylbenzene (all isomers or mixtures)	25551-13-7	15-30%	F,Xn,N	10,20,36/37/38,51/53
Mesitylene	108-67-8	5-10%	Xi	37
n&isopropylbenzenes	103-65-1	1-5%	Xi	37
Xylenes	1330-20-7	1-5%	F,Xn	10,20/21,38
C <sub>12</sub> -C <sub>15</sub> Primary Alcohol	68855-56-1	10-20%	N	50

**NOTE:** Benzene (CAS No. 71-43-2) will normally be present in trace amounts but will always be less than 0.1% w/w marker level in the 21<sup>st</sup> ATP to the Dangerous Substances Directive. This product is NOT CLASSIFIED as a carcinogen under the CHIP3 regulations.

### 3. Hazard Identification

Flammable and harmful. May cause lung damage if swallowed. Irritating to respiratory system. Very toxic to aquatic organisms.

### 4. First Aid Measures

**Inhalation:** In case of drowsiness or sickness remove to fresh air, keep patient warm and at rest. If unconscious, turn to the recovery position. Seek medical assistance.

**Skin Contact:** Promptly remove contaminated clothing and wash the affected area with plenty of soap and water to ensure all traces of product are removed, then rinse thoroughly. Any contaminated clothing must be thoroughly cleaned before re-using. Seek medical advice if irritation persists.

**Eye Contact:** Flush with copious amounts of clean water for at least 15 minutes, with the eye lids held open. Seek medical attention.

**Ingestion:** Wash out mouth with water. Keep patient at rest and obtain medical attention. DO NOT INDUCE VOMITING.

### 5. Fire Fighting Measures

**Suitable Extinguisher Media:** Alcohol-resistant foam, dry powder, carbon dioxide or sand.

**Unsuitable Extinguishing Media:** Water jet.

**Exposure Hazards:** May give off toxic fumes if heated or involved in a fire, including carbon monoxide, carbon dioxide.

**Special Protective Equipment:** Full face, positive pressure, self-contained breathing apparatus and full protective clothing.

## **6. Accidental Release Measures**

**Personal Precautions:** Wear protective equipment as specified in Section 8. Do not eat, drink or smoke. Avoid contact with skin and eyes. Avoid breathing vapours. Eliminate all ignition sources.

**Environmental Precautions:** Eliminate all ignition sources. Keep people and animals away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewerage works inform the local water company. If spillage enters rivers or watercourses inform the Environment Agency.

**Spillages:** Cordon off area. Avoid sparks and open flames. Absorb/contain spillage using inert absorbent granules, sand or earth. Transfer collected material to heavy-duty plastic/steel drums and keep in a well ventilated place for subsequent safe disposal. See Section 13.

## **7. Handling and Storage**

**Handling:** No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Sections 6 and 8 if exposure to product is possible. Take precautionary measures against static discharges. Wash thoroughly with soap and water before eating, drinking or smoking, and after work

**Storage:** Store in original containers in a well ventilated area away from heat, sunlight, ignition sources or open flame. Keep away from oxidising agents. Take precautionary measures against static discharges.

## **8. Exposure Controls / Personal Protection**

**Occupational Exposure Standards:** Solvent Naptha (Petroleum), Light aromatic - 8 hour TWA 200 mg/m<sup>3</sup> (calculated)  
1,2,4-Trimethylbenzene - 8 hour TWA 25ppm OES.

**Engineering Control Measures:** Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and may include physical containment and good ventilation.

**Respiratory Protection:** If levels of vapour exceed the above limits use an approved respirator fitted with an appropriate gas cartridge (organic substance). All items must conform to EN149 and should be suitable for the levels of contamination present in the workplace.

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**Hand Protection:** Wear Neoprene, Nitrile or PVC gloves or gauntlets. These must be manufactured to EN374. The material breakthrough time should be stated by the glove manufacturer, and must be observed at all times.

**Eye Protection:** If splashing of the product is likely chemical resistant goggles conforming to BS 2092 should be worn.

**Body Protection:** Wear suitable impervious, chemical resistant overalls.

**Foot Protection:** Wear chemical resistant safety footwear.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

### **9. Physical and Chemical Properties**

<b>Appearance:</b>	White emulsion	<b>Boiling Point:</b>	100-181°C
<b>Odour:</b>	Aromatic	<b>Vapour Pressure @ 20°C:</b>	0.194 kPa
<b>pH:</b>	Approx. 7	<b>Evaporation Rate (Butyl Acetate = 1):</b>	0.21
<b>Flash Point:</b>	>41°C	<b>Flammable Limits in Air:</b>	<b>Upper:</b> 7.0% <b>Lower:</b> 0.8%
<b>Solubility:</b>	Fully miscible in water	<b>Autoignition Temperature:</b>	>450°C
<b>Flammability:</b>	Flammable		
<b>Specific Gravity:</b>	0.92		

### **10. Stability and Reactivity**

**Stability:** Stable under normal conditions (see Section 7). Avoid heat, flames and sparks.

**Materials to Avoid:** Reacts strongly with oxidisers, acids.

**Hazardous Decomposition Products:** Thermal decomposition may lead to the formation of a wide range of compounds, some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide, may be formed.

### **11. Toxicological Information**

There is no data available on the product itself.  
The following information is based on a knowledge of the components and the toxicology of similar products.

**Inhalation:** Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, and may cause headaches, dizziness and have other CNS effects.

**Skin Contact:** Low order of toxicity. Frequent or prolonged contact may cause irritation and cause dermatitis.

**Eye Contact:** Irritating but does not cause tissue injury.

**Ingestion:** Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema. Minimal toxicity.

## 12. Ecological Information

There is no data available on the product itself.  
The following information is based on a knowledge of the components and the toxicity of similar products.

**Mobility:** Fully miscible with water. Partly evaporates from water or soil surfaces, but a significant proportion will remain after one day. Large volumes may penetrate soil and could contaminate groundwater.

**Degradability:** Biodegradable according to the appropriate OECD test. This product is expected to be removed in a wastewater treatment plant. Oxides rapidly by photochemical reactions in air.

**Bioaccumulation:** Not expected to bioaccumulate.

**Ecotoxicity:** Expected to be very toxic to aquatic organisms.

## 13. Disposal Considerations

Dispose of unused product as hazardous waste, in accordance with all applicable local and national regulations, and in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Used containers should be drained thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

## 14. Transport Information

### **For 25 Litre Unit:**

UN Number:	1993	Packaging Group:	III
<b>ROAD</b>		<b>AIR</b>	
ADR Class:	3	Air Transport Number:	3
ADR Hazard Number:	30	Packaging Instruction:	310
<b>SEA</b>			
IMDG Class:	3.3		
IMDG Page Number:	3345		
Marine Pollutant:	P		

Proper Shipping Name: Flammable liquid, N.O.S. (petroleum solvent emulsion).

### **For 5 Litre Unit:**

Supplied as Limited Quantity.

## 15. Regulatory Information

### **EU Classification and Labelling Particulars:**

**Designated Name:** DESOLVE

**Classification:** Flammable, Harmful & Dangerous for the Environment

**Indication(s) of Danger:** F, Xn & N

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**Contains:** Solvent Naptha, 1,2,4-Trimethylbenzene & C<sub>12</sub>-C<sub>15</sub> Primary Alcohol.

**Risk and Safety Phrases:**

R37: Irritating to respiratory system.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
S23: Do not breathe vapour/spray.  
S24/25: Avoid contact with skin and eyes.  
S60: This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.  
S62: If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

**UK Guidance Publications:** EH40; Occupational Exposure Limits, HSE. Revised annually.  
EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE.

**UK Legislation:** Health and Safety at Work, etc Act, 1974, and relevant Statutory Provisions.  
Control of Substances Hazardous to Health Regulations, 1999.  
The Manual Handling Operations Regulations, 1992.  
The Personal Protective Equipment at Work Regulations, 1992.  
Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 - CHIP 3.

**16. Other Information**

**Full Text of R-Phrases Referred to above:**

R10: Flammable.  
R20/21: Harmful by inhalation and in contact with skin.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R50: Very toxic to aquatic organisms.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.

**Training Advice:** Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.

**Recommended Uses:** For professional use only. This product is designed for use as a heavy duty emulsified, solvent-based, degreasing agent.

**Further Information:** This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. Reference was also made to the above legislation and guidance publications.

**MSDS First Issued:** 25<sup>th</sup> October 1989

**MSDS Revised:** 28<sup>th</sup> June, 2006

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**Changes in this Version:** Section 14 transport reclassification.

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