



## HEALTH AND SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT AND SUPPLIER

<b>Product Name</b>	<b>Marine Contact Adhesive</b>
<b>Supplier</b>	Tiflex Limited Tiflex House Liskeard, Cornwall PL14 4NB.
<b>Telephone</b>	+44 (0)1579 320808
<b>Fax</b>	+44 (0)1579 320802

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Approx. %	Hazard Classification and Risk Phrases
Acetone	67-64-1	10-30	F, R11, Xi, R36, R66, R67
Butanone	78-93-3	10-30	F, R11, Xi, R36, R66, R67
Ethyl Acetate	141-78-6	10-30	F, R11, Xi, R36, R66, R68
Naptha (Petroleum) Hydrotreated Heavy	64742-48-9	30-60	Xn, R65, Xi, R38, F, R11, N, R51/53, R67
Rosin	232-475-7	< 1	R43

### 3. HAZARDS IDENTIFICATION

Highly Flammable. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

CLASSIFICATION Xi; R36/38. F; R11. N; R51/53, R67

### 4. FIRST AID MEASURES

<b>General:</b>	<b>Note! Keep affected person away from heat, sparks and flames!</b>
<b>Eye Contact:</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.
<b>Skin Contact:</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical advice if irritation persists after washing.
<b>Inhalation:</b>	Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.

## 5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Use Carbon Dioxide (CO<sub>2</sub>), Foam, Dry chemicals, sand, dolomite etc.  
**DO NOT USE WATER.**
- Special Fire Precautions:** Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.
- Specific Hazards:** Toxic gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen chloride (HCl).

## 6. SPILLAGE AND ACCIDENTAL RELEASE MEASURES

- Spill Clean up methods:** Extinguish all sources of ignition. Avoid sparks, flames, heat and smoking. Ventilate the area. Clean up personnel should use respiratory and/or liquid contact protection. Absorb in a vermiculite, dry sand or earth and place into containers. DO NOT contaminate water sources or sewer.

## 7. HANDLING AND STORAGE

- Usage precautions:** Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.
- Storage precautions:** Flammable/combustible- Keep away from oxidizers, heat and flames. Store in a cool, dry, well ventilated place. Keep in original container.
- Storage criteria:** Flammable Liquid Storage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Ingredient name:	STD	LT- ppm	LT- mg/m <sup>3</sup>	ST - ppm	ST- mg/m <sup>3</sup>
Acetone	WEL	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>
Butanone	WEL	200 ppm (Sk)	600 mg/m <sup>3</sup> (Sk)	300 ppm (Sk)	899 mg/m <sup>3</sup>
Ethyl Acetate	WEL	200 ppm		400 ppm	
Naptha (Petroleum) Hydrotreated Heavy	WEL		1000 mg/m <sup>3</sup>		

**Ingredient comments:** WEL = Workplace Exposure Limit

### Personal Protective Equipment:

- Engineering measures:** Provide adequate general and local exhaust ventilation. Maintain efficient ventilation/extraction using flameproof equipment where necessary.
- Respiratory equipment:** Respiratory protection must be used if air concentration exceeds acceptable level.
- Hand protection:** Use disposable protective gloves.
- Eye protection:** Used approved safety goggles or face shield.
- Other protection:** Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
- Hygienic work practices:** DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using DO NOT eat, drink or smoke.

## 9. PHYSICAL CHARACTERISTICS

<b>Appearance:</b>	Amber liquid.
<b>Odour/taste:</b>	Organic solvents.
<b>Boiling point (°C interval):</b>	110
<b>Relative Density:</b>	0.85-0.88 @ 20°C
<b>Viscosity (interval):</b>	5,500-6,500 cps. @ 20°C
<b>Solubility description:</b>	Slightly soluble in water.
<b>Flash Point (°C):</b>	-4 CC (Closed cup)
<b>Flammability limit- Lower (%):</b>	1
<b>Flammability limit- Upper (%):</b>	9

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal temperature conditions.
<b>Conditions to avoid:</b>	Avoid heat, flames and other sources of ignition.
<b>Hazardous Decomp products:</b>	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Vapours may cause drowsiness and dizziness.
<b>Ingestion:</b>	May cause stomach pain or vomiting.
<b>Skin:</b>	Irritating to skin.
<b>Eyes:</b>	Irritating to eyes.
<b>Route of entry:</b>	Inhalation. Skin absorption.
<b>Medical symptoms:</b>	High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Dangerous for the environment if discharged into watercourses
<b>Water hazard Classification:</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods:</b>	Dispose of waste and residues in accordance with local authority requirements.
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## 14. TRANSPORTATION INFORMATION

<b>UK Road class</b>	3		
<b>Proper shipping name</b>	Flammable Liquid, NOS		
<b>UN Road No</b>	1133	<b>UK Road Pack Gr</b>	III
<b>ADR Class No</b>	3	<b>ADR Class</b>	Class 3: Flammable liquids
<b>ADR Packing Group</b>	5 '(c)	<b>Hazard No. (ADR)</b>	33
<b>ADR Label</b>	3	<b>Hazchem code</b>	3[Y]E
<b>CEFIC TEC '(R) No</b>	30G30	<b>RID Class No</b>	3
<b>RID Pack Group</b>	5 '(c)	<b>Un No. Sea</b>	1133
<b>IMDG Class</b>	3.1	<b>IMDG Pack Gr</b>	III
<b>Marine Pollutant</b>	No	<b>UN No Air</b>	1133

## 15. REGULATORY INFORMATION

### Hazard Symbols



Harmful



Highly Flammable



Dangerous for the environment

### Risk Phrases

R11	Highly Flammable.
R36/38	Irritating to eyes and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

### Safety Phrases

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No Smoking.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S24/25	Avoid contact with skin and eyes.
S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets
P-14	Contains ROSIN. May produce an allergic reaction.

### Statutory Instruments:

Chemicals (Hazard Information of Packaging) Regulations. Control of Substances Hazardous to Health.

### Approved Code of Practice:

Classification and Labelling of Substances and Preparations Dangerous for Supply.

### Guidance Notes:

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG (108).

## 16. OTHER INFORMATION

Risk Phrases in full

R11	Highly flammable.
R36	Irritating to eyes.
R38	Irritating to skin
R43	May cause sensitisation by skin contact.
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.

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