

## MATERIAL SAFETY DATA SHEET

Issued: 24/04/2008

Revision No: 2

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** Stormoprene 2 Part Adhesive

**CAS number:** A10

**Use of substance / preparation:** 2 Part Adhesive.

**Company name:** Stormsure Ltd

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### 2. HAZARDS IDENTIFICATION

**Main hazards:** Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** CYCLOHEXANE 10-30%

EINECS: 203-806-2 CAS: 110-82-7

[F] R11; [Xi] R38; [Xn] R65; [-] R67; [N] R50/53

• MIXED ALIPHATIC HYDROCARBONS 10-30%

[F] R11; [Xi] R38; [N] R51/53; [Xn] R65; [-] R67

• ACETONE 10-30%

EINECS: 200-662-2 CAS: 67-64-1

[F] R11; [Xi] R36; [-] R66; [-] R67

• ETHYL METHYL KETONE 10-30%

EINECS: 201-159-0 CAS: 78-93-3

[F] R11; [Xi] R36; [-] R66; [-] R67

### 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

### 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

**Exposure hazards:** Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**Suitable packaging:** Must only be kept in original packaging

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace exposure limits**

**WEL (8 hr TWA):** 350mg/m<sup>3</sup>

**WEL (15 min STEL):** 1050mg/m<sup>3</sup>

**Hazardous ingredients:** CYCLOHEXANE

WEL (8 hr TWA): 350 mg/m<sup>3</sup> WEL (15 min STEL): 1050 mg/m<sup>3</sup>

• ACETONE

WEL (8 hr TWA): 1210 mg/m<sup>3</sup> WEL (15 min STEL): 3620 mg/m<sup>3</sup>

• ETHYL METHYL KETONE

WEL (8 hr TWA): 600 mg/m<sup>3</sup> WEL (15 min STEL): 899 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

**Hand protection:** Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Off-white

**Odour:** Characteristic odour

**Evaporation rate:** Fast

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Insoluble

**Viscosity:** Viscous

**Viscosity value:** 40

**Viscosity test method:** Flow time in seconds in a 3 mm ISO cup (ISO 2431)

**Boiling point/range°C:** 56

**Flammability limits %: lower:** 0.6

**upper:** 13

**Flash point°C:** -35

**Autoflammability°C:** 200

**Relative density:** 0.82

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions. Stable at room temperature.

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** CYCLOHEXANE

ORL MUS LD50 813 mg/kg

ORL RAT LD50 12705 mg/kg

• ACETONE

IVN RAT LD50 5500 mg/kg

ORL MUS LD50 3 gm/kg

ORL RAT LD50 5800 mg/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

**Mobility:** Volatile.

**Persistence and degradability:** Biodegradable in part only.

**Bioaccumulative potential:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal operations:** Arrange for disposal by a licenced waste disposal company

**Disposal of packaging:** Arrange for disposal by a licenced waste disposal company

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

### ADR / RID

**UN no:** 1133 **ADR Class:** 3

**Packing group:** II **Classification code:** F1

**Shipping name:** ADHESIVES

**Labelling:** 3 **Hazard ID no:** 33

### IMDG / IMO

**UN no:** 1133 **Class:** 3

**Packing group:** II **EmS:** F-E,S-D

**Marine pollutant:** .

**Labelling:** 3

### IATA / ICAO

**UN no:** 1133 **Class:** 3

**Packing group:** II

**Packing instructions:** 305(P&CA); 307(CAO)

**Labelling:** 3

## 15. REGULATORY INFORMATION

**Hazard symbols:** Highly flammable. Irritant. Dangerous for the environment.

**Risk phrases:** R36/38: Irritating to eyes and skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

**Safety phrases:** S2: Keep out of the reach of children.

S16: Keep away from sources of ignition - No smoking.

S33: Take precautionary measures against static discharges.

S23: Do not breathe vapour.

S51: Use only in well-ventilated areas.

S24/25: Avoid contact with skin and eyes.

S46: If swallowed, seek medical advice immediately and show this container or label.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Precautionary phrases:** Restricted to professional users.

CYCLOHEXANE; MIXED ALIPHATIC HYDROCARBONS; ETHYL METHYL KETONE

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Risk phrases used in s.3:** R11: Highly flammable.

R38: Irritating to skin.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.