

# Raintite

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## **Safety Data Sheet FF860 Solvent Cleaner**



## SAFETY DATA SHEET

AS002

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

**Product name:** AS002

**CAS number:** 64742-49-0

**EINECS number:** 265-151-9

**Index number:** 649-328-00-1

**Use of substance / preparation:** Solvent

**Company name:** Apollo Chemicals Ltd

Sandy Way

Amington Industrial Estate

Tamworth

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### 2. HAZARDS IDENTIFICATION

**Main hazards:** Highly flammable. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.  
Vapours may cause drowsiness and dizziness.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** N-HEXANE 2.000%

EINECS: 203-777-6 CAS: 110-54-3

[F] R11; [Xi] R38; [Xn] R48/20; [Xn] R62; [Xn] R65; [-] R67; [N] R51/53

- PENTANE 2.000%

EINECS: 203-692-4 CAS: 109-66-0

[F+] R12; [N] R51/53; [Xn] R65; [-] R66; [-] R67

- HEPTANE 52.000%

EINECS: 205-563-8 CAS: 142-82-5

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

- METHYLCYCLOHEXANE 8.000%

EINECS: 203-624-3 CAS: 108-87-2

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

- CYCLOPENTANE 6.000%

EINECS: 206-016-6 CAS: 287-92-3

[F] R11; [-] R52/53

[cont...]

**SAFETY DATA SHEET**

AS002

- HEXANE, MIXTURE OF ISOMERS (CONTAINING LESS THAN 5% N-HEXANE, EC NO. 203-777-6) 30.000%  
[F] R11; [Xi] R38; [N] R51/53; [Xn] R65; [-] 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 all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
- 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 exposure limit):** 72mg/m<sup>3</sup>

### Hazardous ingredients:

N-HEXANE  
WEL (8 hr exposure limit): 72 mg/m<sup>3</sup>

- PENTANE

WEL (8 hr exposure limit): 3000 mg/m<sup>3</sup> WEL (15 min exposure limit): 12000 mg/m<sup>3</sup>

- HEPTANE

WEL (8 hr exposure limit): 2100 mg/m<sup>3</sup> WEL (15 min exposure limit): 8400 mg/m<sup>3</sup>

- METHYLCYCLOHEXANE

WEL (8 hr exposure limit): 810 mg/m<sup>3</sup> WEL (15 min exposure limit): 3240 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:** Impermeable gloves. Nitrile gloves. 4 H 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:** Colourless

**Odour:** Characteristic odour

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

**Solubility in water:** Insoluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** 60

**Melting point/range°C:** 0

**Flammability limits %: lower:** 0.6

**upper:** 7

**Flash point°C:** -21

**Autoflammability°C:** 260  
**Vapour pressure:** 170 hPa/20C  
**Relative density:** 0.678

## 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:** N-HEXANE  
IPR RAT LDLO 9100 mg/kg  
IVN MUS LDLO 831 mg/kg  
ORL RAT LD50 25 gm/kg

- PENTANE  
IVN MUS LD50 446 mg/kg  
ORL RAT LD50 400 mg/kg
- HEPTANE  
IVN MUS LD50 222 mg/kg
- METHYLCYCLOHEXANE  
ORL MUS LD50 2250 mg/kg  
ORL RAT LD50 >3200 mg/kg
- CYCLOPENTANE  
ORL MUS LD50 12800 mg/kg  
ORL RAT LD50 11400 mg/kg

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

## 12. ECOLOGICAL INFORMATION

**Hazardous ingredients:** N-HEXANE  
FISH FATHEAD MINNOWS 48H EC50 10000 mg/l  
FISH FATHEAD MINNOWS 96H LC50 11130 mg/l

**Mobility:** Volatile. Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No data available.

**Other adverse effects:** Toxic to aquatic organisms.

## 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**

<b>UN no:</b>	3295	<b>ADR Class:</b>	3
<b>Packing group:</b>	II	<b>Classification code:</b>	F1
<b>Shipping name:</b>	HYDROCARBONS, LIQUID, N.O.S.		
<b>Labelling:</b>	3	<b>Hazard ID no:</b>	33

**IMDG / IMO**

<b>UN no:</b>	3295	<b>Class:</b>	3
<b>Packing group:</b>	II	<b>EmS:</b>	F-E,S-D
<b>Marine pollutant:</b>	.		
<b>Labelling:</b>	3		

**IATA / ICAO**

<b>UN no:</b>	3295	<b>Class:</b>	3
<b>Packing group:</b>	II		
<b>Packing instructions:</b>	305(P&CA); 307(CAO)		
<b>Labelling:</b>	3		

**15. REGULATORY INFORMATION**

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



**Risk phrases:** R11: Highly flammable.  
R38: Irritating to skin.  
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.  
R67: Vapours may cause drowsiness and dizziness.

**Safety phrases:** S2: Keep out of the reach of children.  
S9: Keep container in a well-ventilated place.  
S16: Keep away from sources of ignition - No smoking.  
S33: Take precautionary measures against static discharges.  
S23: Do not breathe vapour.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
S24: Avoid contact with skin.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**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.  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R62: Possible risk of impaired fertility.  
R65: Harmful: may cause lung damage if swallowed.  
R67: Vapours may cause drowsiness and dizziness.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R12: Extremely flammable.  
R66: Repeated exposure may cause skin dryness or cracking.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.