

# SAFETY DATA SHEET

ACETONE

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Issued: 07/02/2008

Revision No: 2

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

**Product name:** ACETONE  
**CAS number:** 67-64-1  
**EINECS number:** 200-662-2  
**Index number:** 606-001-00-8  
**Synonyms:** PROPANONE  
**Company name:** Jawel Paints (West Midlands) Ltd  
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West Midlands  
B66 2QY  
Tel: 0121 558-6191  
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## 2. HAZARDS IDENTIFICATION

**Main hazards:** Highly flammable. Irritating to eyes. 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:** ACETONE >90%

## 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.  
**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove affected person from from source of contamination. Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are affected or if irritation persists, seek medical advice. Continue washing skin for at least 20 minutes.  
**Eye contact:** Immediately flood the eye with plenty of water for at least 15 minutes,holding the eye open. Obtain medical attention.

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**Ingestion:** Rinse mouth thoroughly. Get medical attention immediately. Keep warm and at rest. If there is difficulty in breathing give oxygen. If breathing stops or shows signs of failing, apply artificial respiration.

**Inhalation:** Move to fresh air. Obtain medical attention. Keep the affected person warm and at rest. If unconscious and breathing is OK, place in the recovery position. If breathing stops or shows signs of failing, give artificial respiration.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers. DO NOT USE WATER JETS.

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

**Protection of fire-fighters:** In case of fire, wear self contained breathing apparatus. Water may be ineffective but use to keep fire-exposed containers cool. Keep run-off water out of sewers and water sources. Use water to keep fire exposed containers cool and disperse vapours. Avoid water in straight hose stream, will scatter and spread fire.

**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:** Steel drums. Do not use plastic containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Workplace exposure limits**

**WEL (8 hr TWA):** 1210 mg/m<sup>3</sup>

**WEL (15 min STEL):** 3620 mg/m<sup>3</sup>

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- Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
- Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.
- Hand protection:** butyl rubber gloves. Use gloves with long sleeves.
- Eye protection:** If risk of splashing, wear safety goggles or face shield. Eyewash bottle with clean water.
- Skin protection:** Solvent resistant protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- State:** Liquid
- Colour:** Colourless
- Odour:** Pungent
- Evaporation rate:** Moderate
- Oxidising:** Non-oxidising (by EC criteria)
- Solubility in water:** Highly soluble
- Also soluble in:** Most organic solvents.
- Viscosity:** Non-viscous
- Boiling point/range°C:** 56-58
- Melting point/range°C:** -95
- Flammability limits %: lower:** 2.60
- upper:** 13.0
- Flash point°C:** -18
- Part. coeff. n-octanol/water:** 0.24@20°C
- Autoflammability°C:** 465
- Vapour pressure:** 24.70kPa@20C
- Relative density:** 0.793

**10. STABILITY AND REACTIVITY**

- Stability:** Stable under normal conditions. Stable at room temperature.
- Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames. Static discharge.
- Materials to avoid:** Strong oxidising agents. Strong acids.
- Haz. decomp. products:** In combustion emits Oxides of Carbon.

**11. TOXICOLOGICAL INFORMATION**

- Acute toxicity:** 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.

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**12. ECOLOGICAL INFORMATION****Mobility:** Readily absorbed into soil.**Persistence and degradability:** Product is not expected to bioaccumulate. The product is readily biodegradable in aerobic systems, using either salt water or fresh water inocula.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Negligible ecotoxicity.**13. DISPOSAL CONSIDERATIONS****Disposal operations:** Incinerate in suitable combustion chamber. It is the responsibility of the waste generator to determine the Toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

R1 Solvent reclamation/regeneration.

**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> 1090	<b>ADR Class:</b> 3
<b>Packing group:</b> II	<b>Classification code:</b> F1
<b>Shipping name:</b> ACETONE	
<b>Labelling:</b> 3	<b>Hazard ID no:</b> 33

**IMDG / IMO**

<b>UN no:</b> 1090	<b>Class:</b> 3
<b>Packing group:</b> II	<b>EmS:</b> F-E,S-D
<b>Marine pollutant:</b> NO	
<b>Labelling:</b> 3	

**IATA / ICAO**

<b>UN no:</b> 1090	<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.

Irritant.



**Risk phrases:** R11: Highly flammable.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

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.

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

S33: Take precautionary measures against static discharges.

**Haz. ingredients (label):** Acetone.

**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**

**Other information:** Since emptied containers retain product residue, follow label warnings even after container is emptied. residual vapours may explode on ignition, do not cut, drill, grind or weld on or near this container.

**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.