

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 08.02.2012

Version number 12

Revision: 08.02.2012

Product: CARBOSOLV ACETONE BS 509

## 1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

· **Trade name:** Acetone

· **CAS Number:**

67-64-1

**EC number:**

200-662-2

**Index number:**

606-001-00-8

· **Registration number** 01-2119471330-49-XXXX

· **Relevant identified uses of the substance or mixture and uses advised against**

Manufacture of Substance

Distribution of substance

Laboratory; Release agent; Rubber production; Polymer processing; Cleaning Agents; Oil field drilling

Blowing Agents; Coatings; Adhesives

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU12 Manufacture of plastics products, including compounding and conversion

SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU24 Scientific research and development

· **Product category**

PC1 Adhesives, sealants

PC9a Coatings and paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC18 Ink and toners

PC19 Intermediate

PC21 Laboratory chemicals

PC29 Pharmaceuticals

PC31 Polishes and wax blends

PC32 Polymer preparations and compounds

PC35 Washing and cleaning products (including solvent based products)

PC38 Welding and soldering products (with flux coatings or flux cores.), flux products

· **Application of the substance / the preparation** Solvent

· **Details of the supplier of the safety data sheet**

· **Supplier:**

Palatine Paints & Chemicals Ltd

55 Smallbrook Lane

Leigh, Lancashire

WN7 5PZ

Tel.: 01942 884122 Fax.: 01942 887085

email: [safety@palatinepaints.co.uk](mailto:safety@palatinepaints.co.uk)

· **Emergency telephone number:** 01942 871210 (not 24 hours)

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## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

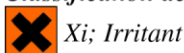
Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

R11: Highly flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

Repeated contact with skin may cause dermatitis due to the degreasing effect of the solvent.  
 Vapours of the product are heavier than air and may accumulate on the ground, in the sump of pits, drains or cellars with higher concentrations. Ground level ventilation is recommended.  
 May have a narcotizing effect after prolonged exposure (see R67)

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word Danger**

- **Hazard statements**

H225 Highly flammable liquid and vapour.  
 H319+EUH066 Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.  
 H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P243 Take precautionary measures against static discharge.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P233 Keep container tightly closed.

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*P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

- **Other hazards**
- **Results of PBT and vPvB assessment**
- PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
67-64-1 acetone
- **Identification number(s)**
- **EC number:** 200-662-2
- **Index number:** 606-001-00-8

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:**  
Seek medical treatment, if any signs of impaired recovery or behaviour.  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation. Seek immediate medical advice.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Seek immediate medical advice.
- **After swallowing:**  
Do not induce vomiting; rinse mouth with water, call for medical help immediately.  
Rinse out mouth and then drink plenty of water.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Headache Dizziness  
Nausea
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Respiratory protective device.
- **Additional information**  
 Cool endangered receptacles with water spray.  
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
 Wear protective equipment. Keep unprotected persons away.  
 Ensure adequate ventilation  
 Keep people at a distance and stay on the windward side.  
 Keep away from ignition sources.  
 Wear protective clothing.
- **Environmental precautions:**  
 In case of seepage into the ground inform responsible authorities.  
 Dilute with plenty of water.  
 Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Ensure adequate ventilation.  
 Send for recovery or disposal in suitable receptacles.  
 Blanket spillage with AFFF Foam Spray to seal from sources of ignition as a precautionary measure.
- **Reference to other sections**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
 Keep receptacles tightly sealed.  
 Keep away from heat and direct sunlight.  
 Use solvent-proof equipment.  
 Store in cool, dry place in tightly closed receptacles.  
 Take note of emission threshold.  
 Use only in well ventilated areas.  
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Do not spray onto a naked flame, hot surfaces, electrical switchgear, live/battery connected electrics, or near to any potential sources of ignition.  
 Flammable gas-air mixtures may form in empty receptacles. Wear shoes with conductive soles.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Store in a cool location.  
 Provide solvent resistant, sealed floor.

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Prevent any seepage into the ground.

Provide ventilation for receptacles.

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

Store in area marked with EX signs under Dangerous Substances and Explosive Atmosphere Regs.

Follow HSE guidance for storage of flammable substances.

Flameproof/explosion proof electrical equipment must be used (ATEX Regulations)

Only store in suitable bunded storage areas. Do not store plastic IBC's with metal drums of other flammable substances.

· **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Store in a cool place.

You are recommended to refer to HSE publications HSG51 - The Storage of Flammable Liquids in Containers; and HSG140 - The Safe Use and Handling of Flammable Liquids, for more detailed understanding of the practices to be adhered to.

Plastic IBC's risk sudden and total loss of product in event of fire. Ensure bunded areas are adequate. Do not store plastic IBC's with other packaged flammable goods.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 acetone**

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Avoid alcohol consumption while working with the product.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation. ·

**Recommended filter device for short term use:** Filter AX · **Protection of hands:**

Solvent resistant gloves. Use gloves approved to BS EN 364 Chemical Resistant Gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Risk management measures**

Carry out risk assessment under Dangerous Substances and Explosive Atmospheres Regulations (DSEAR), COSHH.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties** · **General Information** · **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	94.7°C
<b>Boiling point/Boiling range:</b>	55.8-56.6°C

· **Flash point:** < -18°C

· **Ignition temperature:** 465°C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	2.6 Vol %
<b>Upper:</b>	13 Vol %

· **Vapour pressure at 20°C:** 233 hPa

· **Density at 20°C:** 0.79 g/cm<sup>3</sup>

· **Relative density** Not determined. · **Vapour density** Not determined. · **Evaporation rate** Not determined.

· **Solubility in / Miscibility with water:** Fully miscible.

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- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 25°C:** 32 mPas
  - Kinematic:** Not determined.
- **Solvent content:** 100 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability** vapours form potentially explosive mixtures with air.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications and industry good practice.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, strong oxidising agents, strong alkalis.
- **Hazardous decomposition products:** Carbon monoxide if incomplete combustion.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
  - Oral LD50 5800 mg/kg (rat)
  - Dermal LD50 20000 mg/kg (rabbit)
- **Primary irritant effect:**
  - **on the skin:** Prolonged contact may result in skin irritation.
  - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
  - Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment** · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

· **Waste treatment methods** ·

**Recommendation**

Must not be disposed together with household refuse. Do not allow product to reach sewage system. ·  
**European waste catalogue** Refer to our office for EWC codes for disposal of used solvent.

· **Uncleaned packaging:**

**Recommendation:**

Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We can provide this service - please contact us for more details.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used drums (205litre only).

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **UN-Number**

· **ADR, IMDG, IATA** 1090

· **UN proper shipping name**

· **ADR** 1090 ACETONE

· **IMDG, IATA** ACETONE

· **Transport hazard class(es)**

· **ADR**



· **Class** 3 Flammable liquids.

· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids.

· **Label** 3

· **Packing group**

· **ADR, IMDG, IATA** II

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids.

· **Danger code (Kemler):** 33

· **EMS Number:** F-E,S-D

· **Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable.



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· **Transport/Additional information:**

· **ADR**

· **Tunnel restriction code**

D/E

· **UN "Model Regulation":**

UN1090, ACETONE, 3, II

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture** ·

**National regulations:**

· **Other regulations, limitations and prohibitive regulations**

The Dangerous Substances and Explosive Atmosphere Regulations (DSEAR)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

The 'R' phrase listed below are for reference only and do not form the R phrases for the labelling or classification of the product. Refer to section 3 for this information. · **Training hints**

Make users aware of the contents of this document and train according to use and risks within your operation.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Sales Office in the first instance. ·

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50:

Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· **\* Data compared to the previous version altered.**