SAFETY DATA SHEET

ACETONE 99.5%

Compilation date: 09/09/2014

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ACETONE 99.5%

CAS number: 67-64-1

EINECS number: 200-662-2

Index number: 606-001-00-8

Product code: GPS1003

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Select School Supplies
The Old Gran
Berghill House
Oswestry
SY11 4PD
01691 770366
sales@selectschoolsupplies.co.uk

1.4. Emergency telephone number

Emergency tel: 01691 770366

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066

Classification under CHIP: F: R11; Xi: R36; -: R66; -: R67

Most important adverse effects: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

EUH066: Repeated exposure may cause skin dryness or cracking.

[cont...]

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS02: Flame

Precautionary statements: P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243: Take precautionary measures against static discharge.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ACETONE 99.5%

CAS number: 67-64-1

EINECS number: 200-662-2

Contains: Molecular Formula: C3H6O

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. 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: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Inhalation: May cause drowsiness and dizziness.

Delayed / immediate effects: Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. Narcotic effect. CNS depressant. Prolonged or repeated contact leads to drying of skin. Repeated exposure may cause chronic eye irritation. Upper respiratory irritation. Skin irritation.

[cont...]

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Water spray. Sand Dolomite etc

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Vapours can accumulate in low areas. Beware of vapours accumulating to form explosive concentrations. Evacuate personnel to safe areas. Use personal protection equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Keep away from heat and sources of ignition. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Container must be kept tightly closed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Store in tightly closed container in a dry, cool and well-

[cont...]

ventilated place. Ground container and transfer equipment to eliminate static eletric sparks. Suitable containers: mild steel, stainless steel. Aluminium and its alloys. Copper and its alloys. Do not store in certain plastics.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	500 ppm	1500ppm	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of the workday.

Respiratory protection: In case of inadequate ventilation, use air-supplied full-mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air
respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with application laws and good laboratory practises. Wash and dry hands. Use protective gloves made of: Butyl rubber. Use full length gloves. Manufactured/tested in accordance with EN 374. Determined penetration times carried out in accordance with EN374 part III are not performed under practical conditions, therefore, a maxi

Eye protection: If risk of splashing, wear safety goggles or face shield. Manufactured/Tested in accordance with EN 166.

Skin protection: Complete suit protecting against chemicals. Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

[cont...]

Environmental: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Aromatic

Evaporation rate: 2.0

Solubility in water: Miscible

Boiling point/range°C: 56

Melting point/range°C: -95

Autoflammability°C: 456

Vapour pressure: 240 hPa 20

Relative density: 0.79 @ 20C

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous Polymerisation - Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition. Avoid contact with strong oxidisers. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Materials to avoid: Alkalis. Bases, Oxidising agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

10.6. Hazardous decomposition products

Haz. decomp. products: Fire creates oxides of carbon.

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	5,800	mg/kg
INHALATION	RAT	4H LC50	76	mg/l
DERMAL	RAT	LD50	15,800	mg/kg
DERMAL	GPG	LD50	7,426	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	-	Based on test data

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Inhalation: May cause drowsiness and dizziness.

Delayed / immediate effects: Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. Narcotic effect. CNS depressant. Prolonged or repeated contact leads to drying of skin. Repeated exposure may cause chronic eye irritation. Upper respiratory irritation. Skin irritation.

Other information: Target Organs - Central nervous system. Eyes. Gastro-intestinal tract. Respiratory system. Lungs. Skin. Medical Considerations - Skin disorders and allergies.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	5,540	mg/l
WATER FLEA (Daphnia magna)	48H LC50	8,800	mg/l

12.2. Persistence and degradability

Persistence and degradability: 91% - Readily Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

[cont...]

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Contaminated packages must be completely emptied before sending away for laundering and re-use. Incinerate in suitable combustion chamber. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground. Uncleaned empty packages should be disposed of in the same manner as the contents.

Disposal of packaging: Dispose of as unused product.

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

Section 14: Transport information

14.1. UN number

UN number: UN1090

14.2. UN proper shipping name

Shipping name: ACETONE

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No **Marine pollutant:** No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16: Other information

[cont...]

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

R11: Highly flammable.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

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.