



SAFETY DATA SHEET

G.R.P. ACETONE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	G.R.P. ACETONE
PRODUCT NO.	GRPAGEN
SYNONYMS, TRADE NAMES	2-PROPANONE, DIMETHYL KETONE, KETONE PROPANE, METHYL KETONE, PROPANONE
SUPPLIER	J.V. Barrett & Co. Ltd Barrettine Works, St Ivel Way Warmley Bristol BS30 8TY 0117 9600060 0117 935 2437

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ACETONE	200-662-2	67-64-1	60-100%	F;R11 Xi;R36 R66 R67

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
 CLASSIFICATION Xi;R36. F;R11. R66,R67.

4 FIRST-AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames! Consult a physician for specific advice.

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately! Provide rest, warmth and fresh air. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

SKIN CONTACT

Remove victim immediately from source of exposure. Immediately remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray, fog or mist. Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).

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SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

UNUSUAL FIRE & EXPLOSION HAZARDS

Forms explosive mixtures with air. Extremely flammable. May explode in a fire. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear suitable protective clothing as specified under section 8 of this safety data sheet - Exposure Controls and Personal Protection.

ENVIRONMENTAL PRECAUTIONS

Do not allow spilled material to enter drains or water courses.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container. Ground container and transfer equipment to eliminate static electric sparks.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ACETONE	OES	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3
ACETONE	OES	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

Use protective gloves. Use protective gloves made of: Viton rubber (fluor rubber). or Polyvinyl alcohol (PVA).

EYE PROTECTION

Use approved safety goggles or face shield. Contact lenses should not be worn when working with this chemical!

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HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

ODOUR	Acetone, ketone.		
MOL. WEIGHT	58.08	BOILING POINT (°C)	56 760 mm Hg
MELTING POINT (°C)	-95	RELATIVE DENSITY	0.79 @ 20 °c
VAPOUR DENSITY (air=1)	2	VAPOUR PRESSURE	182
VAPOUR PRESSURE	@ 20 °c	EVAPORATION RATE	7.70
EVAPORATION FACTOR	1.4	VOLATILE BY VOL. (%)	100
ODOUR THRESHOLD, LOWER	100	ODOUR THRESHOLD, LOWER	ppm
ODOUR THRESHOLD, UPPER	ppm	FLASH POINT (°C)	-18
FLASH POINT (°C)	CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	2.15
FLAMMABILITY LIMIT - UPPER(%)	13.30	SOLUBILITY VALUE (g/100g H2O@20°C)	100

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 9570 mg/kg (oral rat)

INHALATION

Vapour may irritate respiratory system or lungs. Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse effects such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

INGESTION

May cause severe internal injury. May cause stomach pain or vomiting.

SKIN CONTACT

Repeated or prolonged contact with organic solvents may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

EYE CONTACT

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

ROUTE OF ENTRY

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Central nervous system. Eyes. Gastro-intestinal tract. Respiratory system, lungs.

MEDICAL SYMPTOMS

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. This material and its container must be disposed of as hazardous waste.

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14 TRANSPORT INFORMATION



UK ROAD CLASS	3	UN NO. ROAD	1090
PROPER SHIPPING NAME	ACETONE	ADR CLASS NO.	3
14 TRANSPORT INFORMATION		ADR PACK GROUP	II
UK ROAD PACK GR.	II	ADR LABEL NO.	3
ADR CLASS	Class 3: Flammable liquids.	CEPIC TEC(R) NO.	30GF1-I+II
HAZARD No. (ADR)	33	RID PACK GROUP	II
HAZCHEM CODE	2YE	IMDG CLASS	3
RID CLASS NO.	3	IMDG PACK GR.	II
UN NO. SEA	1090	MFAG	See Guide
IMDG PAGE NO.	3	UN NO. AIR	1090
EMS	F-E, S-D	AIR PACK GR.	II
MARINE POLLUTANT	No.		
ICAO CLASS	3		

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

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.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

REVISION DATE 02-12-2004

REV. NO./REPL. SDS GENERATED 001

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RISK PHRASES IN FULL

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.