

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June
2020 amending Annex II to Regulation (EC) No

1907/2006

Version number 1

Printing date 30.03.2023

Revision: 30.03.2023

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

1.1 Product identifier

Trade name: Acetone

CAS Number:

67-64-1

EC number:

200-662-2

Index number:

606-001-00-8

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

No further relevant information available.

Application of the substance / the mixture Industrial Purpose

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Deepak Phenolics Limited,

12/B/1, GIDC DAHEJ,

Village: Ambheta, Taluka:

Vagra, District: Bharuch 392130

Gujarat, India.

Further information obtainable from:

Tel. no.: 02641-280723/02641-280702/02641-280814/02641-280708/02641-280703

Website- www.godeepak.com

1.4 Emergency telephone number:

Contact details of European importer

Emergency telephone number:

Telephone number of EU importer:

Opening hours:

Other Comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



flame

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



Eye Irrit. 2 H319 Causes serious eye irritation.

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STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 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 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water [or shower].

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 2.3 Other hazards

The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

· Results of PBT and vPvB assessment

· PBT: The substance is not PBT.

· vPvB: The substance is not vPvB.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

67-64-1 Acetone

· Identification number(s)

· EC number: 200-662-2

· Index number: 606-001-00-8

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· **Additional information:**

Molecular Formula: C₃H₆O

Molecular Weight: 58.08 g/mol

Purity: 100 %

Synonyms: 2-propanone, Dimethyl Ketone, Dimethyl formaldehyde, Pyro acetic acid

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to become chilled. Keep victim warm. If victim is at risk of losing consciousness, position and transport on their side.

· **After inhalation:**

Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where required supply oxygen immediately.

· **After skin contact:**

Immediately remove any wetted clothing, shoes or stockings. After contact with skin, wash immediately with soap and plenty of water. Then cream your skin. In case of skin irritation, consult a physician.

· **After eye contact:**

Remove contact lenses if present and easy to do.

Protect unharmed eye.

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

· **After swallowing:**

If swallowed, do not induce vomiting: show this container or label. Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

· **Information for doctor:**

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

· **4.2 Most important symptoms and effects, both acute and delayed**

Burning eyes and skin. fatigue, nausea, unconsciousness.

- After inhalation: For the development of any overt signs of toxicity in humans, accidental exposures to extremely large amounts of acetone by inhalation of vapour or ingestion of liquid are necessary (e. g. several thousand ppm of acetone vapour).

- In case of ingestion: Gastric and intestinal problems.

- After contact with skin: Irritant. Repeated exposure may cause skin dryness or cracking, due to defatting properties. No indication for sensitising properties in humans.

- After eye contact: Irritant.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Combat acidosis. Monitor alkali reserves. Monitor breathing. If breathing becomes irregular or ceases, apply mouth-to-mouth resuscitation or artificial respiration immediately, where

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required supply oxygen.

Attention: several hours latency period. In severe cases, pneumonia or a pulmonary edema may develop.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

Extinguishing powder, alcohol resistant foam, carbon dioxide, water fog.

· For safety reasons unsuitable extinguishing agents: Water with full jet**· 5.2 Special hazards arising from the substance or mixture**

Highly flammable. Explosive mixtures with air may even form at room temperature. Beware of reignition. In case of fire may be liberated: Carbon monoxide and carbon dioxide.

· 5.3 Advice for firefighters**· Protective equipment:**

Wear a self-contained breathing apparatus and chemical protective clothing.

· Additional information

Hazchem-Code: •2YE

Do not expose to high temperature. Danger of bursting and explosion. Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

Fire class: B

Mixtures with 4% acetone mixed with 96% water still have a flash point of 54 °C.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Remove persons not involved upwind. Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.

Remove all sources of ignition. Vapours spread at floor level. Cover drainage holes and evacuate basement. Dilute with plenty of water. Use only explosion-protected equipment/instruments.

· 6.2 Environmental precautions:

Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits. When released into the environment, alert police and fire brigade. Seal all low level rooms. Danger of explosion!

· 6.3 Methods and material for containment and cleaning up:

In case of spills of large quantities: Dam spills and pump to remove. Explosion protection required. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. Flowing

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water: Dilution occurs quickly. In case of large spills/leaks inform appropriate local, state, and federal spill reporting authorities. Standing water: Seal off. Remove all sources of ignition.

6.4 Reference to other sections

All equipment used when handling the product must be grounded.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments. Do not use air pressure.

Information about fire - and explosion protection:

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of reignition. Potentially explosive mixture may form within partially empty containers. Emergency cooling must be provided for in case of a fire in the vicinity. Do not weld.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.

Steel, stainless steel, and aluminium are stable container materials. Copper may be attacked.

Unsuitable container/equipment material: May attack plastics.

Information about storage in one common storage facility:

Do not store together with combustible or self-igniting materials or any highly flammable solids. Peroxide may form when product is exposed to light and air.

Further information about storage conditions:

Potentially explosive mixture may form within partially empty containers.

For outdoor storage: Use only equipment approved for use in 1 zone.

For indoor storage: Use only equipment approved for use in 2 zone.

Storage class: 3 Flammable liquids**7.3 Specific end use(s) Industrial Purpose**

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of atleast 100 feet per minute.

Ingredients with limit values that require monitoring at the workplace:

CAS: 67-64-1 acetone

Type	Limit value
Europe	IOELV: TWA 1.210 mg/m ³ ; 500 ppm
Great Britain	WEL-STEL 3.620 mg/m ³ ; 1.500 ppm
Great Britain	WEL-TWA 1.210 mg/m ³ ; 500 ppm
Ireland	8 hours 1.210 mg/m ³ ; 500 ppm IOELV

8.2 Exposure controls

Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Have eye wash bottle or eye rinse ready at work place.

Alternatives to the following personal protective measures can only be determined in agreement with a responsible safety experts.

Respiratory protection:

For short exposures or in case of accident: Filter apparatus, type AX (EN 371). Have a breathing apparatus that is not dependent on the circulating air ready for emergencies.

Protection of hands:



Protective gloves

Protective gloves according to EN 374.

Material of gloves Butyl caoutchouc (butyl rubber) - Layer thickness $\geq 0,5$ mm.

Penetration time of glove material

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:



Tightly sealed goggles

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· **Body protection:**

Use solvent-resistant protective clothing.

Recommendation: Flame-retardant protective clothing, antistatic. safety shoes according to EN 345-347.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

Appearance:

Liquid

· **Form:**

Liquid

· **Colour:**

Colourless

· **Odour:**

Mildly pungent, somewhat aromatic.

· **pH-value at 20 °C:**

5-6

· **Change in condition**

Melting point/freezing point:

-94.7 °C (101.3 kPa)

Initial boiling point and boiling range:

56.05 °C (101.3 kPa)

· **Flash point:**

-17 °C (closed cup method)

· **Flammability (solid, gas):**

Highly flammable.

· **Ignition temperature:**

465 °C

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:

2.5 Vol % (60 g/m³)

Upper:

14.3 Vol % (345 g/m³)

· **Oxidising properties**

No oxidizing properties.

· **Vapour pressure at 20 °C:**

240 hPa

· **Density at 20 °C:**

0.79 g/cm³

· **Relative density at 20 °C**

0.79

· **Vapour density**

2 g/cm³ (Air=1)

· **Evaporation rate**

<1 (Butyl Acetate=1)

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water at 20 °C:**

-0.24 log KOW

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- **Viscosity:**
Dynamic at 20 °C: 0.32 mPas
- **9.2 Other information**
 - Miscible with alcohol, dimethylformamide, ether.
 - Surface Tension: 22 mN/m at 30°C.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
Acetone reacts in presence of bases. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited. May become electrostatically charged.
- **10.2 Chemical stability** Product is stable under normal storage conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No hazardous reactions known.
- **10.4 Conditions to avoid**
Highly flammable. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers. May produce, when being mixed with chloridized hydrocarbons and exposed to light, strongly irritating chloric acetone.
- **10.5 Incompatible materials:**
Attacks many plastics and rubbers. On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensation may occur.
Avoid contact with strong oxidizing agents, alkalis and amines.
- **10.6 Hazardous decomposition products:**
In case of fire may be liberated: Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral	LD50	5800 mg/kg bw (rat (Sprague-Dawley) female) (Acute Toxicity: oral)
Dermal	LD 50	>7426 mg/kg bw (rabbit) (Acute Toxicity: dermal)
Inhalative	LC50	132 mg/L air (rat) (Acute Toxicity: oral)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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· **Serious eye damage/irritation**

Causes serious eye irritation.

Undiluted acetone was instilled in rabbit eyes in volumes of 0.005 or 0.20 ml. After 24 hours exposure, acetone was assigned to grade 5 (grading system with a range of 1 to 10) corresponding to the minimum grade of severe eye irritant.

Conclusion: severe eye irritant

· **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure**

May cause drowsiness or dizziness.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **11.2.1 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

· **11.2.2 Information on other hazard:** No further information is available.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

LC 50 48 Hr	8800 mg/L (<i>Daphnia pulex</i> (Water flea)) (Short-term toxicity to aquatic invertebrates)
LC 50 96 Hr	5540 mg/L (<i>Oncorhynchus mykiss</i>) (Short-term toxicity to fish)
NOEC 48 Hr	7000 mg/L (<i>Raphidocelis subcapitata</i> (Algae)) (Toxicity to aquatic algae and cyanobacteria)

· **12.2 Persistence and degradability**

In a modified OECD 301B screening test acetone was biodegraded to 90.0 ± 2.2 % after 28 days. The 10 days window was met. Therefore acetone can be regarded as readily biodegradable.

· **12.3 Bioaccumulative potential**

According to Annex IX, 9.3.2, testing of bioaccumulation is not necessary, if log Kow is less than 3 (acetone: log Kow=-0.24).

· **12.4 Mobility in soil**

Soil sorption Kd was 1.5 L/kg, at 20 °C.

The soil sorption coefficient indicates that acetone is mobile in soil and may be transported by soil water.

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- **Additional ecological information:** (Contd. of page 9)
- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is not vPvB.
- **12.6 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **12.7 Other adverse effect:** No further information is available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Incinerate as hazardous waste according to applicable local, state, and federal regulations.
Do not dispose of with household waste.
- **Waste disposal key:**
Waste key number: 07 01 04* = Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals: organic solvents, halogen-free
* = Evidence for disposal must be provided.
- **Uncleaned packaging:**
- **Recommendation:**
Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

- | | |
|---------------------------------------|--------------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN1090 |
| · 14.2 UN proper shipping name | |
| · ADR | 1090 ACETONE |
| · IMDG, IATA | ACETONE |

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· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· 14.4 Packing group

· ADR, IMDG, IATA

II

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Hazard identification number (Kemler
code):

33

· EMS Number:

F-E, S-D

· Stowage Category

E

· 14.7 Transport in bulk according to Annex
II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30
ml

Maximum net quantity per outer packaging:
500 ml

· Transport category

2

· Tunnel restriction code

D/E

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30
ml

Maximum net quantity per outer packaging:
500 ml

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· **UN "Model Regulation":**

UN 1090 ACETONE, 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

International inventories-

Australian Inventory of Industrial Chemicals (AIIC)-Listed

China - Chemical Inventory of Existing Chemical Substances (IECSC)-Listed

Korea – KE Numbers-Listed

New Zealand - Inventory of Chemicals (NZIoC)-Listed

Philippine Inventory of Chemicals and Chemical Substances (PICCS)-Listed

Turkish Chemical Inventory-Listed

Vietnam National Chemical Inventory (Draft)-Listed

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· **Substances of very high concern (SVHC) according to REACH, Article 57**

The substance is not listed as SVHC.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 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.

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

· **Contact:**

Tel. no.: 02641-280723/02641-280702/02641-280814/02641-280708/02641-280703

Email- www.godeepak.com

· **Abbreviations and acronyms:**

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

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised 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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **Sources**

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006

ECHA-<https://echa.europa.eu/substance-information/-/substanceinfo/100.000.602>

Toxplanet-<https://chemical-search.toxplanet.com//product-search/listexpert/ei-fts-search/dab60de0-38cf-4edf-bbe0-5082f3b949fb>

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

- Section 1: Identification of substance and company
- Section 2: Hazard Identification
- Section 3: Composition/information on ingredients
- Section 4: First-aid measures.

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- Section 12: Ecological Information
- Section 14: Transport information
- Section 15: Regulatory information
- Section 16: Other information

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