



DEEPAK PHENOLICS LIMITED

12/B, GIDC DAHEJ, Tal: VAGRA, Dist: BHARUCH – 392130, GUJARAT.

MATERIAL SAFETY DATA SHEET

DPLD-001-QAQC-406-0003

Section-1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	:	Acetone
SYNONYMS	:	2-propanone, Dimethyl Ketone, Dimethyl formaldehyde, Pyro acetic acid
PROPER SHIPPING NAME	:	Acetone
PRODUCT USE	:	Industrial Purpose
SUPPLIER	:	Deepak Phenolics Limited

Emergency Coordination Centre contact details:

Deepak Phenolics Limited	Safety / Fire Control Room / Security/Laboratory	02641-280723/02641-280702/02641-280814/02641-280708/02641-280703
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Section 2 – COMPOSITION & INFORMATION ON INGREDIENTS



Ingredients / Hazardous	CAS No.	% By Weight
Acetone / Yes	67-64-1	<= 100%

Section 3 – HAZARD IDENTIFICATION

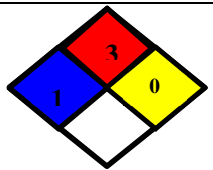
3.1 Classification of the substance or mixture:

Health	Environmental	Physical
Eye irritation, Category 2, H319 Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336	Not available	Flammable liquid, Category 2, H225

3.2 GHS Label:

Symbols:	Flammable	Harmful
		
Hazard Statements	Precautionary Statements	
H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370 + P378 In case of fire: Use dry powder or dry sand to extinguish. P403 + P235 Store in a well-ventilated place. Keep cool.	

3.3 Hazard ratings:

NFPA HAZARD CODES	RATINGS SYSTEM	
HEALTH: 1	0 = No Hazard	
FLAMMABILITY: 3	1 = Slight Hazard	
REACTIVITY: 0	2 = Moderate Hazard	
SPECIFIC HAZARD	3 = Serious Hazard	
	4 = Severe Hazard	



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3.4 Route of entry:

Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
YES	YES	YES	YES	YES

3.5 Health effects: Protective equipment:

HANDS	EYES	BODY	RESPIRATORY
YES	YES	YES	YES

3.6 Health Effect: Hazards

Carcinogenicity	NTP listed?	IARC cancer review group?	OSHA Regulated?
NO	NOT LISTED	NOT LISTED	YES

Section 4 – FIRST AID MEASURES

After Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

After skin contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

After eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

After ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Advice to physician: Treat according to symptoms.

Section 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazard: Carbon oxides.

Firefighting procedures: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personnel protection procedure to be followed in case of leak or spill: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Procedure of personal precaution: Wear self-contained breathing air apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up: 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.

Section 7 – HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Exposure to temperature exceeding 50° C will increase pressure resulting in danger of bursting or explosion.

Storage: Keep container tightly closed in a cool (Below 50 ° C), dry and well-ventilated place. Protect from direct



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sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Stainless steel, steel and aluminum are stable container for storage. Storage class (TRGS 510): Flammable liquids.

Section 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

HANDS	EYES	BODY	RESPIRATORY
			

8.1 Control parameters:

EXPOSURE LIMITS: TWA: 500 STEL: 750 (ppm) from ACGIH (TLV) [United States] TWA: 750 STEL: 1000 (ppm) from OSHA (PEL) [United States] TWA: 500 STEL: 1000 [Australia] TWA: 1185 STEL: 2375 (mg/m³) [Australia] TWA: 750 STEL: 1500 (ppm) [United Kingdom (UK)] TWA: 1810 STEL: 3620 (mg/m³) [United Kingdom (UK)] TWA: 1800 STEL: 2400 from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Respiratory Protection: If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air full-face piece respirator, airline hood, or full-face piece self-contained breathing air apparatus.

Hand Protection: Wear gloves of impervious material.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless , liquid
Odor	Fruity
Solubility in water	Soluble @ 20 °C
Molecular formula	CH ₃ -CO-CH ₃
Specific gravity at (20/20°C)	0.792
Density at 20°C	0.79 g/cm ³
Boiling Point °C	56 - 57 °C
Melting Point °C	-95.4 °C
Relative Vapour Density (Air=1)	2
Flash point °C	- 20.0 °C
Auto ignition °C	465°C (869°F)
Vapour pressure (mmHg) @ 20 °C	24 kPa (@ 20°C)
Molecular weight	58.08 g/mole
Explosive limits in air % by volume	Upper explosion limit: 12.8 %(V) Lower explosion limit: 2.60 %(V)
pH	Neutral (@ 1% Solution)
Viscosity cP @20 °C	0.32



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Pour point	NA
Evaporation rate (water=1)	NA
Water/Oil Dist. Co eff. :	The product is more soluble in water; log(oil/water) = -0.2
% volatile	NA

NA: NOT AVAILABLE

Section 10 – CHEMICAL STABILITY AND REACTIVITY INFORMATION

10.1 Reactivity: Vapors may form explosive mixture with air.

10.2 Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions: Risk of ignition or formation of inflammable gases or vapors with: chromo sulfuric acid, chromyl chloride, ethanolamine, Fluorine, Strong oxidizing agents, strong reducing agents, Nitric acid, and chromium (VI) oxide.

Risk of explosion with: nonmetallic oxy halides, halogen-halogen compounds, Chloroform, nitrating acid, nitrosyl compounds, hydrogen peroxide, halogen oxides, organic nitro compounds, peroxide compounds
Exothermic reaction with: Bromine, Alkali metals, alkali hydroxides, Halogenated hydrocarbon, sulphur dichloride, phosphorous oxichloride.

10.4 Conditions to avoid: Excess heat, ignition sources, exposure to moisture, air, or water, incompatible materials.

10.5 Material to avoid: Incompatible materials: Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

10.6 Hazardous decomposition products: Hazardous decomposition products formed under fire conditions-Carbon oxide.

Section 11 – TOXICOLOGICAL INFORMATION

11.1 Rout of Entry: Absorbed through skin, dermal contact, eye contact, and inhalation.

11.2 Chronic Effect on Human: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. Causes damage to the following organs: central nervous system (CNS). May cause damage to the following organs: kidneys, the reproductive system, liver, skin.

11.3 Toxicity to Animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3000 mg/kg [Mouse]. Acute toxicity of the vapor (LC50): 44000 mg/m³ 4 hours [Mouse].

11.4 Specific effects: Not available.

Section 12 – ECOLOGICAL INFORMATION

12.1 Eco toxicity data:

12.1.1 Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h(Acetone)

12.1.2 Toxicity to alga: Not available.

12.2 Persistence and degradability: Result: 91 % - Readily biodegradable.

12.3 Bio accumulative potential: Does not bio accumulate.

12.4 Mobility in soil: Not available.

12.5 Results of PBT assessment Persistence and Degradation: This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects: Not available.

Section 13 – DISPOSAL CONSIDERATION

Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.



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13.1 Recommended disposal methods for the substance / mixture: Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Recommended disposal methods for contaminated packaging: Dispose of as unused product.

13.3 Waste management measures that control exposure of humans and environment: Proceed in accordance with valid health, air and water legislative regulations.

13.4 Waste regulation: Follow local regulation.

Section 14 – TRANSPORT INFORMATION

Land transport (ADR/RID) / Air transport (IATA) / Sea transport (IMDG)

14.1 UN Number: UN 1090

14.2 Proper Shipping Name: Acetone

14.3 Hazard Class: 3

14.4 Packing group: II

14.5 Environmentally hazardous: no

14.6 Special transport precautionary measures: Not available.

Section 15 – REGULATORY INFORMATION

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

National legislation: Not available.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B:

Material causing other toxic effects (TOXIC).

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves, lab coat, dust respirator, splash goggles. Be sure to use an approved/certified respirator or equivalent.

Section 16 – OTHER INFORMATION

MSDS Revision Status:

Date of preparation	Date of Revision	Revised Sections	Supersedes
04/05/2017	28/08/2020	Section-9	Specific gravity and density incorporate.
04/05/2017	08/09/2020	Section-7	Update Handling & storage condition.

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End of MSDS