



MANUFACTURERS OF INDUSTRIAL & DECORATIVE COATINGS

United Paints Limited
P.O. Box 21 064
29 Empire Road
Bridgend
Christchurch
Telephone : (03) 323 8743
Facsimile: (03) 323 7261

Acetone

Revision : 01

Effective Date : 17th May 2023

Safety Data Sheet

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Acetone
 Use : Solvents, raw material for cleaning agents and disinfectants, for washing and cleaning agents, raw material for cosmetic agents, raw material for pharmaceutical products, raw material for printing inks and printing ink additives, raw material for adhesives and binders, raw material for welding and soldering aids, paint related material.

Supplier : **United Paints Ltd**
 Supplier's Address : 29 Empire Road, Belfast, Christchurch

Contact Number : (03) 3238743 or Fax : (03) 3237261

Emergency Contact Numbers
 National Poison & Hazardous Chemicals Information Centre 0800 POISON
 United Paints Limited – Director (Mr M.Davies) (03) 359 3528 Home , 021 617979 Mobile

II. HAZARDS IDENTIFICATION

GHS Classification : Flammable liquids : category 2
 Serious eye damage/irritation : category 2B
 Specific target organ toxicity, single exposure : category 3, respiratory irritation
 Specific target organ toxicity, repeated exposure : category 2
 Toxic to reproduction : category 2
 Aspiration hazard : category 2

GHS label elements

Symbol(s) :



Signal words : Danger

GHS Hazard statements :

- Physical Hazards**
- H225 Highly flammable liquid and vapour
- Health Hazards**
- H320 Causes eye irritation
- H335 May cause respiratory irritation
- H373 May causes damage to organs through prolonged or repeated exposure
- H361 Suspected of damaging fertility or the unborn child
- H305 May be harmful if swallowed and enters airways

Environmental Hazards



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Not classified as an environmental hazard under GHS criteria.

GHS Precautionary statements

: *Prevention*

- P201 Obtain special instruction before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/spray/vapour.
- P261 Avoid breathing dust/fume/gas/mist/spray/vapour.
- P271 Use only outdoors or in a well ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P301+P310 **If swallowed** : immediately call a poison center or doctor/physician.
- P303+P361
+P353 **If on skin** : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 **If inhaled** : Remove 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.
- P331 Do not induce vomiting.

Storage

- P403+P233 Store in a well ventilated place. Keep container tightly closed.
- P235 Keep cool
- P405 Store locked up.

Disposal

- P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

III. COMPOSITION / INFORMATION ON INGREDIENTS

- Identification of the substance : Acetone
- Chemical Family : Ketone
- Synonyms : Dimethyl ketone
Ketone propane
Betaketo-propane
Propan-2-one



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	2-Propanone
	Pyroacetic ether
Molecular Formula	: C ₃ H ₆ O
CAS Number	: 67-64-1
UN Number	: 1090

IV. FIRST AID MEASURES

General Advice	: When symptoms persist or in all cases of doubt seek medical advice
Inhalation	: Remove victim to fresh air. If cough or other respiratory symptoms develop, get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye Contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	: Rinse mouth with water. If victim is conscious and alert, give 1 - 2 glasses of water or milk. Do not induce vomiting unless directed by medical personnel due to risk of lung damage. Never give anything by mouth to an unconscious or convulsing person. Call a physician immediately.

V. FIRE - FIGHTING MEASURES

Flash Point	: -20°C
Auto-ignition Temperature	: 465°C
Explosive Limits	: 2.6 - 12.8 %
Extinguishing Media	: Water spray, alcohol resistant foam, dry chemical, carbon dioxide (CO ₂).
Inappropriate Extinguishing Media	: Straight streams of water
Fire Fighting Procedures	: Use water to cool exposed containers. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Spills and leaks may be washed away with copious volumes of water, fog or spray. For major fires or where the atmosphere is either oxygen deficient or contains unacceptable levels of combustion product, fire-fighters must wear self-contained breathing apparatus with full face-mask and protective clothing.
Special Protective Equipment for Fire-Fighter	: Wear self-contained breathing apparatus with full face mask and protective clothing.

VI. ACCIDENTAL RELEASE MEASURES



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Personal Precautions	: Evacuate personnel to safe areas. Remove all sources of ignition. Do not breathe vapours or spray mist. Wear self-contained breathing apparatus and protective suit. Shut off leaks if without risk. Keep people away from and upwind of spill / leak.
Environment Precautions	: Contain or absorb leaking liquid with sand or earth. Consult an expert. Prevent liquid entering sewers, basements and work pits; vapor may create explosive atmosphere. If substance has entered a water course or sewer or contaminated soil or vegetation, advise the local emergency services, and waste and environmental authorities.
Methods for Cleaning Up	: <u>For Small Spill</u> Use water spray to reduce vapors and take up with sand or other absorbent material (e.g soil, vermiculite, silica gel, sawdust) and place into sealed containers for disposal. <u>For Large Spill</u> Dike far ahead of spill for later disposal. No smoking, flames, or flares in hazard area. Ventilate spill area. If possible, the spilled liquid should be pumped or otherwise transferred to a waste container. Residual liquid should be absorbed and containerized in a separate container. Dispose of material in accordance with federal , state and local regulations.

VII. HANDLING AND STORAGE

Handling	: Use only in areas provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing. Do not empty into drains. Keep away from heat and sources of ignition. Intrinsically safe equipment (e.g explosion-proof equipment) only must be used in areas where this chemical is being used. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. Containers must be earthed to avoid generation of static charges when agitating or transferring product.
Storage	: Store in tightly closed containers in cool, dry, isolated and well ventilated areas away from heat, sources of ignition and incompatibles. Store away from oxidising agents. Keep containers closed at all times - check regularly for leaks. Do not eat, drink or smoke in areas of use or storage.

VIII. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure standards	: National Occupational Health & Safety Commission (NOHSC) Acetone : TWA - 500 ppm (1210 mg / m ³)
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	The time weighted average concentration for a normal 8-hour workday and a 40-hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.
Respiratory Protection	: In case of insufficient ventilation wear suitable respiratory equipment.
Skin and Body Protection	: Rubber or plastic boots, Chemical resistant apron / complete suit protecting against chemical. Wash contaminated clothing and other protective equipment before storing or re-using.
Eye Protection	: Avoid eye contact by wearing chemical goggles with side shields or face shield. Whenever exposed to vapour or mist or if there is a risk of splashing liquid in the eyes. Safety shower with eye-wash should be provided in all areas where product is handled.
Hand Protection	: Neoprene gloves, latex gloves

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Colour	: Colourless
Odour	: Ketonic odor
Boiling Point Range	: 55 - 57 °C
Melting Point	: - 95 °C
Flash Point	: -20°C
Auto-ignition Temperature	: 465°C
Explosive Limits	: 2.6 - 12.8 %
Vapour Pressure	: 194 mmHg @ 21°C
Vapour Density (relative to air)	: 2
Specific Gravity	: 0.7910 - 0.7930 (20 °C)
Absolute Viscosity	: 0.33 cP @ 25°C
Evaporation Time	: 5.6 (ASTM 3539, nBuAc = 1)
Water Solubility	: Soluble

X. STABILITY AND REACTIVITY

Stability	: Stable at normal conditions
Conditions to avoid	: Heat, sparks, flame and build-up of static electricity
Incompatible Materials	: Strong oxidizing agents, halogenated compounds
Hazardous Polymerization	: Will not occur
Hazardous Decomposition Products	: Burning can produce carbon dioxide and water, incomplete combustion can produce carbon monoxide

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity



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Acute Oral Toxicity	: LD50 rat : 5,800 mg / kg
Acute Inhalation Toxicity	: LC50 rat : > 20 mg / l / 4 h
Acute Dermal Toxicity	: LD50 rabbit : 20,000 mg/kg
Effects on Human	
Swallowed	: Accidental swallowing is unlikely in industrial setting. Swallowing can cause drunkenness or harmful central nervous system effects. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Drinking a large amount may lead to acute intoxication, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Aspiration into lung may cause pneumonitis.
Eye	: Vapour may irritate the eyes. Liquid and mists may severely irritate or damage the eyes.
Skin	: Contact with skin may result in irritation and redness. Prolonged or repeated contact and heavy skin contamination may cause skin drying and cracking and / or dermatitis with redness, itching, and swelling. This may lead to possible secondary infection.
Inhaled	: Vapour is moderately irritating to mucous membranes and respiratory tract. Inhalation of the vapour may result in drunkenness, or headache, nausea, in-coordination, narcosis (sleepiness) and vomiting. Early signs or symptoms may occur at airborne levels of 1000 to 5000 ppm.
Chronic : Long Term Effects	: Long term exposure by swallowing or repeated inhalation, may cause degenerative changes in the liver and other organs. Exposure to acetone in the work setting may add to any health effects caused by intake of alcoholic drinks, particularly in regard to narcotic and liver effects.

XII. ECOLOGICAL INFORMATION

Persistence and Degradability	: Product is volatile and biodegradable
Ecotoxicity	: LC50 Oncorhynchus mykiss (rainbow trout) : 5,540 mg/l; 96 h LC50 Bluegill sunfish : 8,300 mg/l; 96 h LC50 Pimephales promelas : 8,120 mg/l; 96 h EC50 Daphnia magna : 10 mg/l; 24 h EC50 Selenastrum capricornutum : > 100 mg/l; 96 h
Mobility	: When released into the soil, this material will mobile and may contaminate groundwater.
Bioaccumulation	: Not expected to bioaccumulate significantly



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XIII. DISPOSAL CONSIDERATIONS

Substance	: This material must be contained and not disposed to sewerage systems, drains or waterways. It is prohibited to dispose its waste to the environment, without prior treatment in accordance with government regulation
Container	: Dispose of all waste containers and used drums in accordance with local authority guidelines. Empty containers must be decontaminated by rinsing with water. Non-returnable containers should be de-gassed prior to disposal. Waste containers can either be reused for the same material or disposed in accordance with government regulation
Local Regulation	Suitable for incineration by approved agent under controlled conditions if permitted by local authorities, otherwise disposal must be in accordance with local waste and environmental authority requirements.

XIV. TRANSPORTATION INFORMATION

Road and Rail Transport	: UN number	: 1090
	Class	: 3
	Packing Group	: II
Marine Transport	: UN number	: 1090
	Class	: 3
	Packing Group	: II
Air Transport	: UN number	: 1090
	Class	: 3
	Packing Group	: II



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XV. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Related Regulations

: **SS586 : 2008**

- Standard on Hazard communication for hazardous chemicals and dangerous goods:
 - Part 1 : Transport of DGs
 - Part 2 : GHS of Classification & Labelling
 - Part 3 : Preparation of SDS
- AVA - The Control of Plants (Regulation of Pesticides) Rules.
- MOM - The Workplace Safety and Health Act, the Workplace Safety and Health (General Provisions) Regulations and the Workplace Safety and Health (Risk Management) Regulations
- MPA - The Maritime & Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations 2005.
- NEA - The Environmental Protection and Management Act and the Environment Protection and Management (Hazardous Substances) Regulations, and the Control of Vectors and Pesticides Act.
- SCDF - The Fire Safety Act and the Fire Safety (Petroleum and Flammable Materials) Regulations 2005.
- SPF - The Arms and Explosives Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules 2007.

XVI. OTHER INFORMATION

Abbreviation	:	ASTM	American Society for Testing and Materials
		ACGIH	American Conference of Governmental Industrial Hygienists
		EC ₅₀	Half Maximum Effective Concentration
		LC ₅₀	Lethal Concentration and Time
		LD ₅₀	Median Lethal Dose
		NOHSC	National Occupational Health & Safety Commission
		TWA	Time Weighted Averages

Revision Date	17th May 2028
NZ Emergency Services	Telephone 111
NZ Poison Information	Telephone 0800 POISON (0800 764 766)

Disclaimer

The information contained in this Safety Data Sheet is intended to assist in the use of the above product without risk to safety or health and is based on current knowledge and experience. This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.