

Material Safety Data Sheet

Infosafe No™ ACEIQ Issue Date : February 2023 ISSUED by ACECHEM

Product Name **FORMALDEHYDE 10% Buffered**

Classified as hazardous

Section 1 - Identification

Product Identifier	FORMALDEHYDE 10% Buffered
Company Product Codes / Numbers / Unique Identifiers	F872807
Company Name	ACE CHEMICAL COMPANY (ABN 35619819300)
Address	119A Mooringe Avenue Camden Park SA 5038 AUSTRALIA
Telephone/Fax Number	Tel: 08-8376 0844 Fax: 08-8295 8563
Emergency Phone Number	0438760844
Emergency Contact Address	ACE CHEMICALS Tel (08) 8376 0844
(24 hour a day available)	POISONS INFO LINE Tel (24hr) 131126
E-mail Address	acechem@bigpond.com
Recommended use of the chemical and restrictions on use	Disinfectant, germicide, fungicide, insecticide. Used in industry for organic chemicals, explosives, rubber, photography, tanning, resins, phenolic resins, adhesives, fabric treatment and dyes. Used in chemical analysis.
Other Information	Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Acute Toxicity - Dermal: Category 3 Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 4 Carcinogenicity: Category 1 Eye Damage/Irritation: Category 1 Germ Cell Mutagenicity: Category 2 Sensitization - Respiratory: Category 1 Sensitization - Skin: Category 1 Skin Corrosion/Irritation: Category 1B
Signal Word	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H341 Suspected of causing genetic defects . H350 May cause cancer .
Pictogram (s)	Skull and crossbones, Health hazard, Corrosion



Precautionary Statement - Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
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Precautionary Statement – Response

P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341 IF INHALED: If breathing is difficult, remove victim 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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P311 Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to .

Precautionary Statement – Storage

Precautionary Statement – Disposal

Other Information

Health hazards from formaldehyde arise mainly from the gaseous formaldehyde released into the atmosphere from the solution. Formaldehyde is a pungent irritant colourless gas with a suffocating odour.

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Formaldehyde	50-00-0	10 %
	Phosphates	N/A	1 %
	Water To Make Total Of		100%

Section 4 - First Aid Measures

Inhalation	Remove affected person from contaminated area and seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.
Ingestion	Give plenty of water to drink and induce vomiting. Use fingers in the throat, Ipecac Syrup (APF) or similar emetic. Seek immediate medical assistance.
Skin	Remove contaminated clothing and wash affected skin with soap and water. Seek medical advice.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Eye wash bottle and normal washroom facilities.

Section 5 - Firefighting Measures

Fire Fighting Measures	As in any fire, wear an approved self-contained breathing apparatus in pressure-demand, and full protective gear.
Suitable Extinguishing Media	Use extinguishing media suitable for surrounding environment

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Section 6 - Accidental Release Measures

Spills & Disposal Review Fire/Explosion Hazard and Precautions for Use before proceeding with cleanup. Use appropriate Personal Protection during cleanup. Slippery when wet. Clean up immediately. Increase ventilation. Contain with inert material, dry earth or sand. Recover free liquid. Put absorbed material into sealed, labelled drums. Treatment, storage, transportation and disposal must be in accordance with the relevant Federal, State and Local regulations. Seek assistance from the relevant authority if in doubt.

Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from alkalis. Suitable container; -polyethylene/polypropylene. Plastic carboy. Plastic drum Polyliner drum Store between 25 and 35 deg C.

Other Information Do not decant liquid unless properly equipped. Avoid breathing vapours or mist. Avoid contact with skin or eyes. Wash thoroughly after handling.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) Values These TLVs are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible. These TLVs should not be used as fine lines between safe and dangerous concentrations.

FORMALDEHYDE	
TWA	STEL
2 ppm	2 ppm
2.5 mg/m3	2.5 mg/m3

Other Exposure Information (TLV-TWA) 1.2 mg/m3 (1 ppm), sensitiser; Worksafe Aust. SHORT-TERM EXP. LIMIT (TLV-STEL) 2.5 mg/m3 (2 ppm). IDLH Level : 30ppm Category 2 Carcinogen, Worksafe Aust. - Probable human carcinogens are those substances for which there is sufficient evidence to provide a strong presumption that human exposure may result in the development of cancer. This evidence is generally based on appropriate long term animal studies, limited epidemiological evidence or other relevant information. Typical symptoms of exposure at varying levels have been reported as follows
0.1ppm-Lower level of mucous eye, nose and throat irritation
0.8ppm-typical threshold of perception
1-2ppm-typical threshold of irritation
2-3ppm-irritation of eyes, nose and throat
4-5ppm-increased irritation, tearing, headache, pungent odour
10-20ppm-prfuse tearing, severe burning, coughing
50ppm-serious bronchial and alveolar damage
100ppm-Formaldehyde induce chemical pneumonia and death
It is recommended that air concentrations of formaldehyde in the workplace be reduced to the lowest level possible that can be achieved by engineering controls.

Personal Protective Equipment CIELING LIMITS 0.3 ppm (37 mg/m3) -ACGIH (1993-1994)
The following personal protective equipment must be worn. Impervious overalls or similar apparel. Splash apron. Use good industrial hygiene. Avoid all skin and eye contact. Use with adequate ventilation. If generating vapour or mist and inhalation risk occurs, wear respirator or half mask organic vapour cartridge. Use full mask organic vapour cartridge if eye protection is required. Safety shower and eyewash unit should be readily available.

Section 9 - Physical and Chemical Properties

Appearance Water white solution, suffocating odour ODOUR THRESHOLD 0.5 - 1 ppm
A white deposit of paraformaldehyde may form on storage.
On standing when cold, may become cloudy. When exposed to low temperatures a precipitate of trioxymethylene is formed.

Boiling Point <100 deg C

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Specific Gravity	approx. 1.1
pH	2.4 to 4.0
Vapour Pressure	Reid vapour pressure: 0.09 psia
Relative Vapour Density (Air=1)	1.08 (air=1)
Flash Point	85 deg C (37% sltion containing 9% methanol) cc
Flammability	Combustible.
Auto-ignition Temperature	430 deg C
Flammable Limits - Lower	No Data
Explosion Properties	(LEL) 7.0% - (UEL) 73%
Other Information	CONVERSION FACTOR 1 ppm = 1.23 mg/m3 SOLUBILITY IN WATER Very soluble Miscible in alcohol and acetone

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions	STABILITY: Stable. INCOMPATIBILITY: Incompatible with strong acids, oxidants and alkalis. DECOMPOSITION: Decomposes with extreme heat to carbon monoxide and carbon dioxide. POLYMERISATION: Polymerises with heat and time.
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Section 11 - Toxicological Information

Toxicology Information	Inhalation TCLo(human): 17 mg/m3/30min. Oral Lowest Lethal Dose(woman): 108 mg/kg Oral LD50(rat): 800 mg/kg Dermal LD50(rabbit): 270 mg/kg More detailed information about the effects of chemicals on health can be obtained from Worksafe Australia.
Ingestion	Ingestion causes immediate irritation of the mouth, throat and stomach resulting in nausea. In extreme cases severe abdominal pain may be followed by collapse.
Inhalation	Formaldehyde vapour irritates all upper parts of the respiratory system and also affects the eyes. Most individuals can detect formaldehyde at concentrations as low as 0.5 ppm, and as exposure increases up to the current maximum exposure of 1 ppm, irritation becomes more pronounced. Formaldehyde is an animal carcinogen. Squamous cell carcinomas were produced in the nasal cavities of rats following prolonged exposure to high levels of formaldehyde vapour. Similar exposure of mice or hamsters did not produce squamous cell carcinomas. Some European and American authorities believe that formaldehyde is possibly carcinogenic to man. See Exposure Standards. Repeated exposure may cause sensitisation and /or allergic reactions. Respiratory sensitisation may result in allergic/ asthma like responses; from coughing and minor breathing difficulties, to bronchitis with wheezing gasping. Sensitisation reactions may appear suddenly after repeated symptom free exposures. Inhalation of vapour may aggravate a pre-existing respiratory condition. Inhalation of vapour at relatively low concentrations may cause a tingling sensation in the nose and upper respiratory tract. Slightly higher concentrations may cause a burning sensation, headache. High vapour concentrations are capable of causing chest constriction, bronchio pneumonia dysphagia, oedema, spasms of the larynx and dyspnoea.
Skin	Formaldehyde is a highly irritating to the skin and can cause hardening or cracking of the skin or chemical burns if exposure is prolonged. It may cause skin sensation and dermatitis, with responses including rash itching hives or swelling of extremities.
Eye	Formaldehyde solution is a severe irritant to the eye and may cause

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Chronic Effects permanent damage. The vapour may cause inflammation of the eyelids, lachrymation (tears) and burning sensation. Capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not properly and adequately treated.

Suspected carcinogen, ACGIH
IARC Cancer Review - animal sufficient evidence, human inadequate evidence.
Worksafe Aust. Class 2 carcinogen, Probable human carcinogen.
Principle routes of exposure are usually by inhalation and absorption/skin contact. Sensitisation may give severe responses to very low levels of exposure i.e. hypersensitivity. Sensitised persons should not be allowed to work in situations where exposure may occur. Prolonged or repeated skin exposure may dry with cracking, irritation and possible dermatitis following

Section 12 - Ecological Information

Information on Ecological Effects Harmful to aquatic life.

Other Precautions Toxic and irritant liquid and vapour. Avoid skin and eye contact. Ensure adequate ventilation. Adhere to Exposure Standards. Adequate ventilation must be provided to ensure that the atmospheric concentration of formaldehyde does not exceed the Exposure Standard at any time. Combustible.

Section 13 - Disposal Considerations

Section 14 - Transport Information

Section 15 - Regulatory Information

Poisons Schedule S6

Packaging & Labelling As required by the ADG Code and the Standard for the Uniform Scheduling of Drugs and Poisons.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34- Causes burns.
R41- Risk of serious damage to eyes.
R43- May cause sensitisation by skin contact.
R49- May cause cancer by inhalation.
S23 Do not breathe gas/fumes/vapour/spray
S26- In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre
S36/37 wear suitable protective clothing and gloves
S44- If you feel unwell, contact a doctor or Poisons Information Centre immediately (show label where possible)
S51- Use only in well ventilated areas.

Section 16 - Any Other Relevant Information

Literature References The Merck Index, Eleventh Edition 'Merck & Co. Inc. 1989 Borden.

Contact Person/Point Ace Chemical Company
119A Mooringe Avenue
Camden Park S.A. 5038
Tel: 08-8376 0844 Fax: 08-8295 8563
or Poisons Information Centre
Tel: 13 11 26
Disclaimer:
Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.

Empirical Formula & Structural Formula MOLECULAR FORMULA C-H2-O
HCHO = 30.03

...End Of MSDS...

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