
Section 1. Supplier Information

CMI Chemical Corporation
12336 Emerson Drive
Brighton, MI 48116
(248) 587-5600
Emergency Telephone: 1-800-424-9300

Section 2. Hazardous Ingredients

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
2-Propanol	67-63-0	400 ppm	N/E	400 ppm	500 ppm	400 ppm	30 - 40

N/A = Not Applicable; N/E = Not Established; * = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; ** = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

Section 3. Hazards Identification

Primary Routes of Entry

Inhalation: YES
Skin: YES
Ingestion: YES

Hazardous Materials Information System (HMIS) Ratings

Health:	2	0 = Minimal
Fire:	3	1 = Slight
Reactivity:	0	2 = Moderate
		3 = Serious
		4 = Severe
		* = Chronic Hazard

Signs of Symptoms of Exposure:

INHALATION: Vapors are irritating to the nose, throat, and respiratory tract, and may produce headache and nausea in areas of poor ventilation.

SKIN: Prolonged or repeated skin contact can cause redness, swelling, cracking.

EYES: Vapors are slightly uncomfortable. Splashes can be irritating, will cause painful burning or stinging of eyes and lids, watering of eyes and inflammation of conjunctiva.

INGESTION: May dull senses and cause injury if significant quantities are ingested.

Chemical Listed as Potential Carcinogens:

NTP: NO

IARC: NO

OSHA: NO

Target Organs: Eyes, skin, respiratory system, and CNS.

Section 4. Emergency And First Aid Procedures

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated

OA-53124 -- ODOR ABSORBER

clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

EYES: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

INGESTION: Call a physician or emergency medical facility immediately!

Section 5. Fire Fighting Measures

Flash Point: 71 ° F

Method Used: Tagliabue Closed Cup

Flammable Limits in Air % by Volume: LEL: 2.0

UEL: 12.7 ; for isopropyl alcohol

Extinguisher Media: Carbon dioxide, dry chemical, or foam.

Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode, and protective clothing.

Unusual Fire And Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited at locations distant from handling point.

Section 6. Accidental Release Measures

If material is spilled, eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area; place in closed containers for disposal. Ventilate confined spaces. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Continue to observe precautions for volatile, combustible vapors from absorbed material.

CERCLA (Superfund) Reportable Quantity (in lbs None.

Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: Store in area approved for flammables. Ground all containers when transferring material. Keep container closed and maintain all original markings and labels. Keep this container and vapors from this container away from heat, sparks, flame, and other ignition sources.

Other: CAUTION! Do not use cutting or welding torches on containers, even when empty. Containers, even those that have been emptied, will retain product residue and vapors. Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Use NIOSH / MSHA approved respirator where high vapor or mist concentrations are present.

Local Exhaust: None normally required. Local exhaust may be needed under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.

OA-53124 -- ODOR ABSORBER

Other Protection: Eye wash and safety shower should be readily available.
Hygienic Practices: Avoid contact with skin and avoid breathing vapors or mist. Do not eat, drink, or smoke while using this product. Wash up prior to eating, drinking, or using the restroom.

Section 9. Physical and Chemical Properties

Boiling Point: > 180 ° F
Specific Gravity (H₂O=1): 0.92-0.96
Vapor Pressure (mm Hg): > 1
Vapor Density (air=1) > 1
Solubility in Water: Complete.
Reactivity in Water: None.
Weight per Gallon (lb/gal): 7.8 - 7.9 lbs/gal
% Volatile by Volume: > 99
% Solid by Weight: < 1
Appearance and Odor: Clear, colorless slightly hazy liquid with a herbal fragrance.
Theoretical VOC: 2.7 - 2.9 lbs/gal
(>0.1 mm Hg @ 20 ° C)
Analytical VOC : 2.9 - 3.1 lbs/gal
(EPA method 24)
pH: 5.3 - 6.0

Degree of water solubility:
Negligible = Less than 0.1%
Slight = 0.1% - 1%
Moderate = 1% - 10%
Appreciable = More than 10%
Complete = 100%

Section 10. Stability and Reactivity

Stability: Stable. Hazard Polymerization: Will not occur.
Conditions to Avoid: FLAMMABLE! Keep from heat, sparks, or open flame.
Incompatibility (Materials to Avoid): Strong oxidizers, acid, acetaldehyde, chlorine, ethylene oxide, and isocyanates.
Hazardous Decomposition Products: Oxides of carbon.

Section 11. Toxicological Information

2-Propanol [CASRN 000067-63-0]

ACUTE TOXICITY

Oral LD50 (mouse) = 3600 mg/kg Eye irritation (Draize - rabbit) 100 mg (moderate)
Oral LD50 (rat) = 5045 mg/kg Dermal irritation (Draize - rabbit) 500 mg (mild)
Oral LD50 (rabbit) = 6410 mg/kg
Dermal LD50 (rabbit) = 12800 mg/kg [5,8-C,15-012800]

Section 12. Ecological Information

2-Propanol [CASRN 000067-63-0]

ECOTOXICITY

LC50 (fathead minnow) = 11,830 mg/l, 1 hr, static bioassay
LC50 (goldfish) = 5,000 mg/L, 24 hr, modified ASTM D1345 bioassay

FATE 2-Propanol is not expected to adsorb to sediment or bioconcentrate in fish. In the atmosphere, it will photodegrade primarily by the reaction with hydroxyl radicals with a half-life of

OA-53124 -- ODOR ABSORBER

one to several days. Due to its solubility in water, rainout may be significant. 2-Propanol is expected to evaporate quickly from the soil surface and leach into the ground. It is predicted to volatilize in aquatic environments with a half-life of 5.4 days and may biodegrade. [5,8-C,15-012800]

Section 13. Disposal Considerations

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: D001

Section 14. Transport Information

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: ISOPROPYL ALCOHOL SOLUTION, 3, UN1219, PG II

Domestic ground bulk: ISOPROPYL ALCOHOL SOLUTION, 3, UN1219, PG II

International: ISOPROPYL ALCOHOL SOLUTION, 3, UN1219, PG II

Section 15. Regulatory Information

SARA 313 Information

This product contains the following chemical(s) above de minimis concentrations and may be subject to reporting under section 313:

None.

Section 16. Other Information

This MSDS contains revisions in the following sections: New format

Prepared by: Sandy M. Bojcevski Chemist

Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.