

1. Identification

Product name: MetriCide® 28
Recommended use: Disinfectants
Restrictions on use: None known
Supplier: METREX® RESEARCH
 1717 W. Collins Ave.
 Orange, CA 92867 - U.S.A.
 T 1-800-841-1428 (Customer Service)
Emergency number: (Chemical Spills, Leaks, Fire, Exposure or Accident only):
 CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)
Issue date: 09/11/2020

2. Hazard(s) identification

Classification:

Physical hazards	Health hazards
Not classified	Eye irritation Category 2A Respiratory sensitization, Category 1

GHS US labeling:

Danger!



Hazard statements (GHS US)	Precautionary statements (GHS US)
H319 - Causes serious eye irritation H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled	P261 - Avoid breathing mist, vapors, spray. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical attention. P501 - Dispose of contents or container to hazardous or

special waste collection point, in accordance with local, regional, national and/or international regulation

3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Non-Hazardous Ingredient*	Trade Secret	90-<100
Glutaral	111-30-8	2.5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

4. First-aid measures

Inhalation: Move the affected person to the fresh air. If experiencing respiratory symptoms: Get immediate medical advice/attention.

Skin: Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Ingestion: Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

Symptoms/effects: Causes eye irritation. Repeated or prolonged skin contact may cause irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.

Immediate medical attention and special treatment, if necessary: Obtain medical attention if breathing difficulty persists.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

Fire hazard: This product is not classified as flammable or combustible. On combustion, forms: carbon oxides (CO and CO₂).

Special protective equipment and precautions for fire-fighters: In case of fire: Stop leak if safe to do so. Cool down the containers exposed to heat with a water spray. Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin and clothing. Wear suitable protective clothing.

Methods and material for containment and cleaning up: Stop leak if safe to do so. Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Avoid breathing mist, vapors. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Wash hands with water and soap. Read and follow safety precautions on the solvent label and SDS.

Storage conditions: Store at room temperature. Keep container tightly closed.

8. Exposure controls/personal protection

Exposure guidelines:

Non-Hazardous Ingredient	None established.
Glutaral	0.05 ppm Ceiling ACGIH TLV

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: Wear impervious gloves. Nitrile rubber gloves. Butyl-rubber protective gloves

Eye protection: Chemical goggles

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Wear respiratory protection. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Clear, colorless liquid.

Physical state : Liquid

Color : Colorless

Odor : Fruity

Odor threshold : 0.038 ppm Glutaral

pH : 3.2 - 4.3 inactivated (6.5-8.5 activated)

Melting point : Not applicable

Freezing point : No data available

Boiling point : 212 °F (100 °C)

Flash point : No data available

Relative : No data available

evaporation rate (butyl acetate=1)

Flammability (solid, gas) : Not applicable.

Vapor pressure : 0.3 mm Hg @20°C (Glutaral)

Relative vapor density at 20 °C : No data available

No additional information available

Relative density : > 1

Solubility : Soluble in water.

Log Pow : No data available

Auto-ignition : No data available

temperature

Decomposition : No data available

temperature

Viscosity, : No data available

kinematic

Viscosity, : No data available

dynamic

Explosion limits : No data available

Explosive : No data available

properties

Oxidizing : No data available

properties

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Avoid high temperatures. Try to reduce evaporation.

Incompatible materials : Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products: Thermal decomposition generates: Carbon oxides (CO, CO₂).

11. Toxicological information

Inhalation: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause minor irritation to the respiratory tract and to other mucous membranes. High concentration of vapors may induce: headache, nausea, dizziness.

Skin: May cause slight irritation to the skin.

Eyes: May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.

Chronic symptoms: None known.

Carcinogenicity: Not classified

Non-Hazardous Ingredient: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Glutaral: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Numerical measures of toxicity:

The following are the toxicity values for the components:

Non-Hazardous Ingredient: No data available

Glutaral: Oral rat LD50- 77 mg/kg; Dermal rat LD50- > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity); Dermal rabbit LD50- > 2000 mg/kg body weight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity);

Skin corrosion/irritation Not classified (Based on available data, the classification criteria are not met).
pH: 3.2 - 4.3 inactivated (6.5-8.5 activated)

Serious eye damage/irritation Causes serious eye irritation.
pH: 3.2 - 4.3 inactivated (6.5-8.5 activated)

Respiratory or skin sensitization May cause an allergy or asthma symptoms or breathing difficulties if inhaled. (This product does not cause skin sensitization. No sensitizing reaction was observed for guinea pigs. Based on available data, the classification criteria are not met)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Not classified

12. Ecological information

Ecology - general: Toxic to aquatic life.

Ecotoxicity:

Glutaral 10 mg/L Fish LC50; 14.87 mg/L Daphnia EC50; 0.6 mg/L Algae ErC50

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

14. Transport information

Department of Transportation (DOT)

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information

SARA Section 313 - Emission Reporting: Not subject to reporting requirements of the United States SARA Section 313

CERCLA Section 103:

This product is not subject to reporting under CERCLA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

TSCA: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

INTERNATIONAL INVENTORIES

Australia AICS: One or more ingredient(s) are not listed

Canada DSL: All the components are listed.

China IECSC: One or more ingredient(s) are not listed

EU EINECS: One or more ingredient(s) are not listed

Japan ENCS: One or more ingredient(s) are not listed

Korea KECL: One or more ingredient(s) are not listed

New Zealand: One or more ingredient(s) are not listed

Philippines PICCS: One or more ingredient(s) are not listed

Taiwan CSNN: One or more ingredient(s) are not listed

16. Other information

Revision date : 09/11/2020

NFPA	
NFPA health hazard:	2
NFPA fire hazard:	1
NFPA reactivity:	0

NOTICE

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX® RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.