

SAFETY DATA SHEET

Product Name : Chemworld Cold Fog

Date Issued : May 2, 2019

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Chemworld Cold Fog
Formula : Multi-component mixture

Chemical Synonym / C# c005
Chemical Family: Mild acid

Supplier : ChemWorld.com, 885 Woodstock Rd., Ste 430-111, Roswell, GA 30075

Information Telephone : (800) 658-7716

SECTION 2 : HAZARD IDENTIFICATION

Form : Liquid **Color :** Clear, water-white

Emergency Overview : Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire SDS for a more thorough evaluation of the hazards.

OSHA Hazard Communication Standard : This product has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

GHS Classification :

Eye Irritation (Category 2A Irritant)

Skin Irritation (Category 2 Irritant)

Acute toxicity (oral, Category 5)

Specific Target Organ Toxicity following single exposure (respiratory, Category 3)

Label Elements :

Signal Word : Warning



GHS Hazard Pictograms :

Exclamation Mark

Hazard Statements :

H303 May be harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statements :

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P281 Use personal protective equipment as required.

P301+ P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

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 advice/attention.

P302 + P351 IF ON SKIN: Rinse cautiously with water for several minutes.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

Other hazards which do not result in classification :

None known. See Section 11 for Potential Health Hazards

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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Hydrogen Peroxide	7722-84-1	5 - 10

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 4 : FIRST AID MEASURES

Eye Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

Skin Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes. If irritation persists, contact a physician for treatment. Clean contaminated clothing before reuse.

Inhalation: Move victim to fresh air. If irritation persists, seek medical attention.

Ingestion: Vomiting may result if sufficient quantity is swallowed. Seek medical attention. Do not induce vomiting. If conscious, give several glasses of water or milk, or any dilute solution of any soluble calcium or magnesium salt.

Notes to physician : treat symptomatically. No specific antidote available. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 : FIRE FIGHTING MEASURES

Extinguishing Media: None required.

Fire Fighting Procedures: Use caution when fighting any fire. Adequate respiratory protection is essential.

Unusual Fire and Explosion Hazards: None known.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions : Use suitable protective equipment (See Section 8 : "Exposure controls / personal protection").

Steps to be taken in case material is released or spilled:

Small Spill: Absorb with suitable absorbent such as sand or vermiculite.

Large Spill: Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

Solid spill: Sweep up and return to container.

SECTION 7 : HANDLING AND STORAGE

Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, liquids may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. Handle with care. Wash thoroughly after handling.

Storage Requirements: Keep container closed. Store in an area that is dry and well-ventilated, away from incompatible materials (see section 10). For Industrial and commercial use only!

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SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Enzyme modified Oxidanyl	1.4	-

Engineering measures :

Ventilation / Local Exhaust / Mechanical Recommendations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment :

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact or splash contact glove supplier recommendations : Material: Nitrile rubber, Minimum layer thickness: 0.11 mm. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Do not wear leather gloves or leather shoes (uppers or soles) because they can ignite following contact with peroxide. Cotton clothing can also ignite. This effect may be within minutes, or delayed. Clothing fires and skin damage occur less quickly with 50% or lower hydrogen peroxide than with 70% material, but adequate personal protection is essential for all industrial concentrations. Protective skin creams offer no protection from hydrogen peroxide and should not be used.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eye Protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear, water-white liquid, odor nil.

Water Solubility: complete

Specific Gravity: 1.02

Evaporation Rate(water=1): N/A

Vapor Density(air=1) : N/A

Flash Point : None

Flammable Limits: LEL = N/A **UEL =** N/A

pH (1%): 5.0 - 6.0

Boiling Point (°F) : N/A

% Volatile: N/A

Vapor Pressure(mmHg): N/A

Flash Point Method Used: N/A

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SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products:

Chemical Stability: Stable under recommended storage conditions. Unstable with heat or contamination; liberation of oxygen gas may result in dangerous pressures.

Decomposition: Contamination or heat may cause self-accelerating exothermic decomposition with oxygen gas and steam release that can cause dangerous pressures. May react dangerously with rust, dust, dirt, iron, copper, heavy metals or their salts (such as mercuric oxide or chloride), alkalies, and with organic materials (especially vinyl monomers).

Incompatibility with other Substances: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts. Incompatible with most flammables/combustibles and many other oxidizing and reducing agents. Mixtures with both organics and some acids may be especially reactive.

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

Skin Contact: Skin contact with aqueous solutions of less than 50% Oxidanyl may cause irritation with discomfort or rash. Higher or prolonged exposure may result in skin burns or ulceration. Evidence suggests that skin permeation can occur in amounts capable of producing systemic toxicity. **Eye**

Contact: Effects of eye contact with aqueous solutions of less than 5% Oxidanyl may include eye irritation with discomfort, tearing, or blurring of vision. Higher or prolonged exposure may result in eye corrosion with corneal or conjunctival ulceration.

Inhalation: Overexposure by inhalation may cause irritation of the upper respiratory passages or nonspecific discomfort such as nausea, headache, or weakness. Higher inhalation exposures may lead to temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; or fatality from gross overexposure.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract with upper abdominal pain, "heartburn", nausea, vomiting, and diarrhea. "coffee grounds" vomitus and black tarry stools may occur as a result of gastrointestinal tract bleeding. Additional effects from overexposure include red blood cell destruction, or gas embolism. When used as colonic lavage, Oxidanyl has caused gas embolism and gangrene of the intestine at concentrations down to 0.75% Oxidanyl.

Note to Physicians: Individuals with preexisting diseases of the skin, eyes, or lungs may have increased susceptibility to the toxicity of excessive exposures.

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Toxicological Data (as Enzyme modified Oxidanyl):

Acute Toxicity/Effects

Oral LD50 rat, > 5,000 mg/kg (H2O2 10 %)

Dermal LD50, rabbit > 2,000 mg/kg (H2O2 35 %)

Inhalation LC50 4h, rat, > 0.17 mg/l, Remarks: vapour (H2O2 50 %)

Skin corrosion/irritation : rabbit, No skin irritation (H2O2 10 %)

Serious eye damage/eye irritation : rabbit, Severe eye irritation (H2O2 10 %)

Respiratory/Skin sensitization : guinea pig, Did not cause sensitization on laboratory animals.

Chronic toxicity :

- Oral, 90-day, mouse, Target Organs: Gastrointestinal tract, Lowest observable effect level: 300 ppm, LOAEL

- Oral, 90-day, mouse, NOEL: 100 ppm, NOAEL

- Inhalation, 28-day, rat, Target Organs: Respiratory system, Lowest observable effect level: 10 ppm, LOAEL, vapour

- Inhalation, 28-day, rat, NOEL: 2 ppm, NOAEL, vapour

Carcinogenicity:

- Oral, Prolonged exposure, mouse, Target Organs: duodenum, carcinogenic effects

- Dermal, Prolonged exposure, mouse, Animal testing did not show any carcinogenic effects.

Reproductive toxicity :

- Substance is totally biotransformed (metabolised).

- study scientifically unjustified

Genetic toxicity in vitro

- In vitro tests have shown mutagenic effects.

Genetic toxicity in vivo

- In vivo tests did not show mutagenic effects

Specific target organ toxicity - single exposure : No data

Specific target organ toxicity - repeated exposure : No data

Aspiration hazard : No data

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SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicological Information (as Enzyme modified Oxidanyl):

Acute toxicity

- Fishes, Pimephales promelas, LC50, 96 h, 16.4 mg/l
- Fishes, Pimephales promelas, NOEC, 96 h, 4.3 mg/l
- Crustaceans, Daphnia pulex, EC50, 48 h, 2.4 mg/l Remarks: fresh water, semi-static test
- Crustaceans, Daphnia pulex, NOEC, 48 h, 1 mg/l Remarks: fresh water, semi-static test

Chronic toxicity

- Algae, Skeletonema costatum, EC50, growth rate, 72 h, 2.6 mg/l
- Algae, Skeletonema costatum, NOEC, 72 h, 0.63 mg/l
- Algae, Chlorella vulgaris, EC50, Growth rate, 72 h, 4.3 mg/l
- Algae, Chlorella vulgaris, NOEC, 72 h, 0.1 mg/l

Persistence and degradability :

Abiotic degradation

- Air, indirect photo-oxidation, t 1/2 24 h Conditions: sensitizer: OH radicals
- Water, redox reaction, t 1/2 120 h Conditions: mineral and enzymatic catalysis, fresh water, salt water
- Soil, redox reaction, t 1/2 12 h Conditions: mineral and enzymatic catalysis

Biodegradation

- aerobic, t 1/2 < 2 min Conditions: biological treatment sludge Remarks: Readily biodegradable.
- aerobic, t 1/2 from 0.3 - 5 d Conditions: fresh water Remarks: Readily biodegradable.
- anaerobic Conditions: Soil/sediments Remarks: not applicable

Bioaccumulative potential :

- Bioaccumulative potential: -1.57 Result: Does not bioaccumulate.

Mobility in Soil :

- Air, Volatility, Henry's law constant (H) = 0.75 kPa.m³/mol Conditions: 20 °C Remarks: not significant
- Water Remarks: considerable solubility and mobility
- Soil/sediments, log KOC:0.2 Remarks: non-significant evaporation and adsorption

Other adverse effects : no data available

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Neutralize spent solutions to an acceptable pH level. Allow oils to separate and decant if possible. Detergent portion is 100% biodegradable. Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No

If yes, the RCRA ID number is : N/A

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SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (855) 347-8203

UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information: NOT REGULATED BY DOT (mildly acidic cleaning liquid NOIBN)

SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

TSCA (Toxic Substances Control Act) Status : TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a) : not regulated

SARA 302 Components - 40 CFR 355 Appendix A : Concentrations of < 52% Oxidanyl are not regulated.

SARA 311/312 Classification - 40 CFR 370.2 :
(as Enzyme modified Oxidanyl) : Acute Health Hazard, Fire Hazard

SARA 313 Components - 40 CFR 372.65:

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
none		

INTERNATIONAL REGULATIONS :

Inventory Status as Enzyme modified Oxidanyl (CAS#7722-84-1): Oxidanyl is in compliance with or listed on the following inventories : Australian Inventory of Chemical Substances (AICS), Canadian Domestic Substances List (DSL), Korean Existing Chemicals Inventory (KECI (KR)), EU list of existing chemical substances (EINECS), Japanese Existing and New Chemical Substances (MITI List) (ENCS), Inventory of Existing Chemical Substances (China) (IECS), Philippine Inventory of Chemicals and Chemical Substances (PICCS), New Zealand Inventory of Chemicals (NZIOC)

STATE REGULATIONS :

California Safe Drinking Water Act (Prop. 65) Listing : None listed

Other Regulations / Legislation which apply to this product:

Enzyme modified Oxidanyl(CAS#7722-84-1) is listed on the following inventories : Pennsylvania Right To Know, New Jersey Right To Know.

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SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 1

NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Revision Date : 5/2/2019

Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.