

Material Safety Data Sheet (MSDS)

MSDS No. WLG-A+B-04
Emergency Phone: (502) 969-6949
Date: May, 2009

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Section I – Identification

Product: White Lightning Gel – 1:1 Mixture of Part (A) and Part (B)
Synonyms: Sodium chlorite, chlorous acid, chlorine dioxide, phosphoric acid.
Chemical: Oxidant.
CAS No.: 7758-19-2 (sodium chlorite)
CAS No.: 10049-04-4 (chlorine dioxide)
CAS No.: 7664-38-2 (phosphoric acid)

Section II – Hazardous Ingredients

Not Applicable (NA)

Section III – Physical Data

Boiling Point at 1 ATM.: NA
Evaporation Rate: NA
Vapor Pressure: NA
Specific Gravity: NA
Viscosity: 14,000
Vapor Density (AIR): NA
pH @ 25°C: 3.6
Appearance: white – yellowish gel, turns bright yellow within 5 minutes after Parts A and B are mixed.
Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA
Auto Ignition Temp: NA
Flammability Limit (AIR): NA
Special Fire-Fighting procedure: None
Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers
Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Liberation of ClO₂ gas: When Parts A and B are mixed, chlorine dioxide is generated. The concentration of chlorine dioxide will increase over a ten-minute time span.
Stability: In general, chlorine dioxide is unstable and will evaporate over time. The rate of gas-off is determined by the surface area and the temperature of the gel. If kept in a closed environment, the chlorine dioxide will be maintained for longer periods of time.
Condition to Avoid: Avoid mixing large quantities (1/2 gallon or more) of Parts A and B in closed, poorly ventilated area, in order to prevent inhalation of chlorine dioxide gas.
Hazardous Decomposition Products: Excessive levels of chlorine dioxide gas may be generated if large quantities are combined with bleach or strong acids.
Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute Dermal LD₅₀ > 2,020 mg/kg (sodium chlorite). Acute dermal rat LD₅₀ >2,000 mg/kg (chlorine dioxide). Wash with water if irritation occurs.

Inhalation: Not a concern under normal use conditions. Continuous exposure to high levels of chlorine dioxide gas can be irritating or hazardous. If strong odor or mucous membrane irritation is noted, move away from the area into fresh air.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg (sodium chlorite). Rat Oral LD₅₀ males 2.25 g/kg, females 0.78 g/kg (chlorine dioxide). Ingestion in large quantities may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is adequate for safe use of this product. Leave area for a few minutes if excessive level of chlorine dioxide gas is generated should the product be exposed to bleach or strong acids, or if Parts A and B are mixed in large quantities.

Protective Gloves: Not required

Eye Protection: Avoid contact with eyes.

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Keep out of reach of children.

Other Precautions: Parts A and B should only be mixed at the time of use. Mixture will bleach clothing.

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