

MATERIAL SAFETY DATA SHEET

1 OF 2

Section I: PRODUCT IDENTIFICATION

Product Name: **Formalin, Buffered, 20% V/V**

Date: 01/13

Item Number: 28620-5

Emergency Phone: 800-424-9300

Section II: COMPOSITION INGREDIENTS

Component(s): Formaldehyde, CAS#50-00-0, 20% v/v, Hazardous, Phosphate Salts, CAS# 7558-80-7, 7558-79-4, <1%, Non-Hazardous,

Section III: HAZARDOUS IDENTIFICATION

Appearance: Clear Liquid, Formaldehyde odor

Potential Concerns/Effects: Exposure to vapors may cause irritation of eyes, skin and respiratory/digestive tract. Target organs are eyes, skin, central nervous system, optic nerve, liver, spleen and blood. May be fatal if swallowed. Suspect carcinogen.

Section IV: FIRST AID MEASURES

Emergency First Aid:

- Skin:** Remove contaminated clothing. Wash affected area with soap and water. Contact physician if necessary
- Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.
- Ingestion:** Rinse mouth thoroughly with water, provided person is conscious and contact a physician immediately.
- Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section V: FIRE FIGHTING MEASURES

Flash Point: NA **Flammable Limits:** LEL NA UEL NA

Extinguishing Media: Water spray, dry chemical, CO2 and foam

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus.

Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: May emit toxic fumes under fire conditions.

NFPA: Health 3, Flammability 0, Reactivity 0.

Section VI: ACCIDENTAL RELEASE MEASURES

Use appropriate safety equipment. Isolate the spill area. Water may be used to assist clean-up. Place all contaminated material in a closed container for disposal according to state and federal regulations.

Section VII: STORAGE AND HANDLING

Store in cool, dry, ventilated area with tightly closed container. Wash after handling and remove soiled clothing for cleaning.

Section VIII: EXPOSURE CONTROLS AND PROTECTION

Use only in well ventilated fume hood/area. Wear protective equipment. Eyes wash station and sink with ability rinse from skin should be available. Formaldehyde exposure limits for *OHSA PEL*, *ACGIH TLV/STEL* are 2ppm/TWA 0.75ppm

Section IX: PHYSICAL DATA

Boiling Point: ~212°F

Vapor Pressure mm Hg/20°C: 1.3

Vapor Density (Air 1:1): 1.04

Solubility in H2O: Complete

Specific Gravity (H2O = 1): ~1.03

Percent Volatile by Vol: 20%

Evaporation Rate (ether = 1): Minimal

Appearance: Clear, colorless liquid, pungent odor

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Section X: STABILITY AND REACTIVITY

Chemical Stability: Stable **Materials to Avoid:** Strong Oxidizers, Organics **Hazardous Decomposition:** Oxides of carbon, formic acid **Hazardous Polymerization:** Does not occur **Conditions to Avoid:** Excessive heat

Section XI: TOXICOLOGICAL INFORMATION

LDLo50, 42mg/kg mouse; Carcinogen Suspect ACGIH, IARC, NIOSH, NTP and OSHA; Teratogenicity have occurred in animals; reproductive effects, toxicity in laboratory animals; mutagenicity suspect. Chronic effects on humans, damage to gastro/respiratory tract, skin, central nervous system and eyes. Hazardous if ingested.

Section XII: ECOLOGICAL INFORMATION

Environmental Fate and Toxicity: Products of degradation are less toxic than the product itself. Acute Toxicity; NA

Section XIII: DISPOSAL CONSIDERATIONS

All liquid and or contaminated material should be disposed of in compliance with Federal, State and Local regulations for disposal. Generators must determine if chemical waste is classified as hazardous waste. RCRA P and R-Series are not listed.

Section XIV: TRANSPORTATION REGULATIONS

DOT Classification: Formalin Solution, Non-Restricted

Section XV: REGULATORY INFORMATION US Federal

TSCA 8(b) Health and Safety Reporting List, listed on inventory;

SARA Section 302/304 Formalin (RQ) &Section (TPQ), Formalin; **SARA 311/312**; Chemical inventory, health hazard, **Section 313**; Formalin

Clean Air Act: Regulated toxic substances, formaldehyde

Clean Water Act 307; Components are not listed, **Clean Water Act 311**; Formaldehydhe

OSHA: Components are not considered highly hazardous

State: Right to Know Methanol; CA, MA, NJ, PA

European/International Regulations: European Labeling, EC Directives

Hazardous Symbols:

Risk Phase: Not available

Safety Phrases: S24/25 Avoid contact with eyes and skin; S37 Wear protective gloves; S45 In case of contact if feeling ill, contact a physician immediately; S28A Wash immediately if contact with skin

WGK (Water Danger/Protection) no information available

Canada-DSL/NDSL-WHMIS; Classified in accordance with the hazardous criteria of CPR, Material causing other toxic effects, Very Toxic/Toxic

Section XVI: DISCLAIMER INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. StatLab Medical Products shall not be held liable for any damage resulting from handling or contact with this product.

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