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MATERIAL SAFETY DATA SHEET FT-6066 Glutaraldehyde

SECTION 1 – PRODUCT INFORMATION

Trade Name: **FT-6066**

Common Chemical Name: Glutaraldehyde

Synonym: Pentanedial

Chemical Family: Dialdehydes

Molecular Formula: Mixture

Molecular Wt: N/A

SECTION 2 – INGREDIENTS

Composition:

Name:	CAS #	% by weight
Glutaraldehyde	111-30-8	Proprietary
Water	7732-18-5	Proprietary

SECTION 3 – PHYSICAL PROPERTIES

Boiling Point (@760mm Hg):	~212°F	Solubility in Water:	complete
Freezing Point (@ 760mm Hg):	~5°F	Appearance:	clear (colorless to light yellow), watery liquid
Vapor Pressure (@68°F):	30mm Hg	Odor:	pungent
Vapor Density (air = 1):	1.11	pH:	3.5
Evaporation Rate:	no data	Specific Gravity:	1.13
Solubility: soluble in water, diethyl ether, benzene, ethanol and other organic solvents			

SECTION 4 – FIRE AND EXPLOSION DATA

Flammability:	non-flammable
Flash Point °F:	not available
Method:	not available
Autoignition:	not applicable

FIRE FIGHTING PROCEDURES: Firefighters should be equipped with SCBA and turn out gear.

EXTINGUISHING MEDIA: Use water fog, foam, CO₂ or dry chemical extinguishing media.

USUAL HAZARDS: not applicable

SECTION 5 – HEALTH EFFECTS

Potential Acute Health Effects:

Hazardous in case of skin contact and eye contact (irritant), of ingestion, of inhalation (lung irritant and sensitizer). Slightly hazardous in case of skin contact (sensitizer and permeator). Liquid or mist may produce tissue damage, particularly on the mucous membranes (eyes, mouth and respiratory tract). Topical (skin) contact may cause burns. Inhalation of mist may produce severe irritation of the respiratory tract. Symptoms include coughing, choking and shortness of breath. Death may result from over-exposure.

Potential Chronic Health Effects:

Carcinogenic Effects: Classified A4 (not classifiable for animals or humans).

Mutagenic Effects: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Teratogenic Effects: Not available

Developmental Toxicity: Classified as a toxin for female reproductive systems and suspected for male reproductive systems.

General: May be toxic to blood, reproductive systems, liver, mucous membranes, spleen, CNS and urinary tract system. Repeated or prolonged exposure can damage target organs. Repeated or prolonged exposure to the mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation leading to frequent bronchial infection.

SECTION 6 – FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with water for at least 15 minutes. Seek additional medical attention immediately.

Skin Contact: Immediately flush skin with water and cover affected area with a protective emollient. Remove contaminated clothing and shoes, thoroughly cleaning before reuse. Seek additional medical attention.

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SECTION 6 – FIRST AID MEASURES – CONT.

Serious Skin Contact: Wash with a disinfectant soap and cover the affected area with an anti-bacterial cream/ointment. Seek additional medical attention immediately.

Inhalation: Remove to fresh air immediately. If not breathing, provide artificial respiration, preferably mouth-to-mouth resuscitation. Give oxygen if breathing is difficult. Seek additional medical attention immediately.

Serious Inhalation: Evacuate victim to fresh air as soon as possible. Loosen any tight or restrictive clothing (collar, belt, etc.). Administer mouth-to-mouth resuscitation if the victim is not breathing. Administer oxygen if breathing is difficult. Seek immediate medical attention. *WARNING: It may also be hazardous to the individual administering mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive.*

Ingestion: Do NOT induce vomiting unless instructed by poison control or medical personnel. Never give an unconscious person anything by mouth. Seek immediate medical attention.

Serious Ingestion: not applicable.

SECTION 7 – PRODUCT HANDLING

Precautions: Keep secured. Do not ingest liquid or breathe vapors/spray. Wear appropriate protective clothing. Wear appropriate respiratory equipment if ventilation is or will be insufficient. If ingested, seek immediate medical advice. Avoid contact with the skin and eyes. Keep away from oxidizing agents and alkalis.

Storage: Product is light sensitive; store in light resistant, tightly closed containers. Store containers in cool, well-ventilated areas.

Spills: Contain, solidify and place in a suitable disposal container. Dispose of in a licensed facility. This product is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

Waste Disposal: incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems.

Container Disposal: dispose of in a licensed facility. Crush or otherwise destroy to prevent unauthorized container reuse.

SECTION 8 – REACTIVITY DATA

Stability: Stable

Incompatibility: oxidizing agents, alkalis

Corrosivity: non-corrosive

Polymerization: will not occur

Special Remarks: incompatible with amines, ammonia and other caustic materials

HMIS Info: Health – 2 Fire – 0 Reactivity – 0 Special – n/a

NFPA Info: Health – 2 Fire – 0 Reactivity – 0 Special – n/a

SECTION 9 – PERSONAL PROTECTION

Clothing: gloves, coveralls, apron, boots as necessary to prevent contact

Eyes: splash goggle, chemical goggles; face shield if splashing hazard exists

Respiratory: if vapors or mists are generated, wear a NIOSH/MSHA-approved organic vapor/mist respirator or an air-supplied respirator as appropriate

Other: eyewash fountains and safety showers must be easily accessible. Do not use product as a spray.

SECTION 10 – TOXICOLOGICAL INFORMATION

Routes of Entry: absorbed via skin; eye contact, inhalation, ingestion

Toxicity to Animals: *Warning: the LC50 values provided are estimated on the basis of a 4 hour exposure.*

Acute oral toxicity (LC50): 100mg/kg (mouse)

Acute dermal toxicity (LC50): >2,500mg/kg (rat); 560ul/kg (rabbit)

Acute vapor toxicity (LC50): 480mg/m – 4 hours (rat)

SECTION 11 – SHIPPING INFORMATION

Hazard classification: corrosive liquid

UN/NA #: UN3265

Labels required: corrosive

DOT Shipping name: corrosive liquid, acidic, organic, NOS

Pkg. Group: II

HMIS Info: Health – 2 Fire – 0 Reactivity – 0 Special – n/a