

GC TiON REACTOR
MATERIAL SAFETY DATA SHEET**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****DISTRIBUTOR**

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COMMON NAME: GC TiON REACTOR**CHEMICAL NAME:** N.A.**PRODUCT USE:** Reactor for tooth whitening system.

The following information is provided with regard to the toxicity and hazards the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Ethanol	64-17-5	PEL = 1000 ppm (OSHA) TWA = 1900 mg/m ³ (ACGIH)	LD50=7060 mg/kg (oral rat) LD50=6300 mg/kg (oral rabbit) LC50=20000ppm/10H (inhalation rat) LC50=39 mg/m ³ /4H (inhalation mouse)	80-90%
Water	7732-18-5	N.E.	N.E.	10%
Titanium dioxide	13463-67-7	TWA=10mg/m ³ (respirable) (ACGIH)	N.E.	1-5%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 64-83°C	SPECIFIC GRAVITY: <1
VAPOR PRESSURE: 44mm Hg @20°C	MELTING POINT: N.E.
VAPOR DENSITY: >1.0	EVAPORATION RATE: N.E.
SOLUBILITY IN WATER: Soluble	ODOR THRESHOLD: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR: Clear liquid, aromatic odor

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT:** 13°C**FLAMMABLE LIMITS:****EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, water spray of alcohol-resistant foam.**SPECIAL FIRE FIGHTING PROCEDURES:** In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Flammable liquid. Can release vapors that form explosive mixtures at temperatures above flash point.**HAZARDOUS COMBUSTION PRODUCTS:** N.E.**SECTION 5 - REACTIVITY DATA**

STABILITY:	Stable <input checked="" type="checkbox"/>	Unstable <input type="checkbox"/>
POLYMERIZATION:	Will Not Occur <input checked="" type="checkbox"/>	Will Occur <input type="checkbox"/>

CONDITIONS TO AVOID: High heat, humidity, ignition sources**INCOMPATIBILITY (Materials to Avoid):** oxidizer**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon dioxide, carbon monoxide

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation Skin Ingestion **HEALTH HAZARD (Acute and Chronic):** Causes eye, skin and gastrointestinal irritation. May be fatal or cause blindness if swallowed. May cause systemic toxicity with acidosis.**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Inhalation of high concentrations may cause headache, dizziness, unconsciousness and coma. May cause nausea, vomiting and diarrhea if swallowed.**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N.E.**EMERGENCY FIRST AID PROCEDURES:****INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention immediately.**SKIN CONTACT:** Flush skin with plenty of soap and water for at least 15 minutes. Seek medical attention.**INGESTION:** If conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE****IN CASE OF RELEASE OR SPILL:** Absorb spill with inert material (e.g. dry sand or earth), then place into chemical waste container. Remove all sources of ignition. Provide ventilation.**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal guidelines.**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store container tightly closed. Avoid contact with heat, sparks and flame. Do not ingest or inhale.**SECTION 8 - CONTROL MEASURES****RESPIRATORY PROTECTION:** Not required**VENTILATION:** Local Exhaust Recommended Mechanical: Special: Other: **PROTECTIVE GLOVES:** Wear appropriate protective gloves.**EYE PROTECTION:** Wear appropriate protective eyeglasses.**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N.E.**WORK/HYGIENIC PRACTICE:** Observe good, hygienic work practices.**SECTION 9 - PREPARATION INFORMATION***This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR.*DATE: 16 April 2007REVIEWED: 22 January 2009N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED*The information herein is given in good faith but no warranty expressed or implied is made.*

FIRE - 4 TOXICITY - 1 NFPA REACTIVITY - 1 SPECIAL -