

Advanced Oxidation Technology



Chemical Solutions for a Cleaner Environment

MATERIAL SAFETY DATA SHEET

Advanced Oxidation Technology
1103 Kam Drive
Blacksburg, VA 24060
Revised 04-16-05

PRODUCT INFORMATION

Product Name: VTX Catalyst

Formula: This product is a proprietary catalyst.

INGREDIENTS

Ingredients: Proprietary

CAS #: Special chemical name(s) and CAS number(s) will be a trade secret as allowed by 29 CFR 1910,1200.

PHYSICAL DATA

Appearance and odor: Dark brown liquid, slightly acrid in liquid form.

Melting point: N/A

Boiling point: 106C (223F)

Solubility: Compete

Specific gravity: 1.000 ± 0.15

pH: 6.5 - 7.5

Vapor pressure: 40mmHg @ 35C.

FIRE AND EXPLOSION INFORMATION

Flash point: Not applicable.

Auto-ignition temperature: Not applicable.

Flammable limits in air: Not applicable

Extinguishing media: Will not burn: use materials appropriate for surrounding fire.

Unusual fire and explosion hazards: None.

ENVIRONMENTAL TOXICITY INFORMATION

Daphnia (Ceriodaphnia dubia) LC50: 144.1 mg/l

Fathead Minnow (Pimephales promelas) LC50: >1000 mg/l

Algae (Selenastrum capricornutum) EC50: 732.8 mg/l, **EC0:** 288.4 mg/l

Biodegradability: Readily biodegradable

REGULATORY INFORMATION

TSCA INVENTORY STATUS: The VTX Catalyst is EPA/TSCA approved.

RCRA Hazardous Material: No

CERCLA: No

HEALTH INFORMATION

Threshold limit value: None specifically established by OSHA. Fifty (50) ppm set by manufacturers as dust/mist standard.

Eyes: Overexposure by eye contact may include discoloration of eye tissues, eye irritation and discomfort, tearing and blurring of vision, or eye corrosion with corneal or conjunctival ulceration.

Skin: Normal contact with VTX will not cause any issues with skin. VTX should be flushed from the skin with water if contacted.

Inhalation: Overexposure by inhalation may result in irritation of the upper respiratory passages with coughing.

Ingestion: Ingestion may cause an irritation to the gastrointestinal tract. Repeated ingestion of may lead to ulceration of the gastrointestinal tract.

EMERGENCY FIRST AID PROCEDURES

Eyes: Flush with water immediately and thoroughly for at least a 15 minutes. Get prompt medical attention if irritation persists.

Skin: Remove contaminated clothing and flush skin with water.

Inhalation: Remove to fresh air. Call a physician if problems persist.

Ingestion: Do not induce vomiting. Give large quantities of water, then an antacid. Seek medical assistance.

REACTIVITY DATA

Stability: Stable.

Decomposition: Will not occur.

Incompatibility: None known.

Hazardous polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

CAUTION: Ventilation should be provided in enclosed areas. Dike area around spill to prevent spreading, and use absorbent material to pick up spill. Dispose of water in accordance with applicable federal, state, and local laws at licensed incinerators or landfills. Do not discharge to waterways or sewer systems without authority. This material is not regulated by RCRA or CERCLA (Superfund).

PERSONAL PROTECTION INFORMATION

Eyes: Safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists.

Skin: Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material, apron, boots, hood, pants and jacket.

Respiratory: Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

SPECIAL PRECAUTIONS

Storage: Keep container closed until use. Store at room temperature.

The information herein is given in good faith, but no warranty expressed or implied, is made.

EMERGENCY CONTACT:

Call Advanced Oxidation Technology Representative - 8am to 5pm 540-230-4717