SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Yttrium (III) chloride Hydrate**

PRODUCT NUMBER: 3840

CAS NUMBER: 12741-05-8

SYNONYMS: Yttrium trichloride hydrate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word **Warning**

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.

HMIS CLASSIFICATION:
Health: 2 Fire: 0 Reactivity Hazard: 0

NFPA RATING:
Health: 2 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes serious eye irritation.
SKIN CONTACT: Causes skin irritation.
INHALATION: Inhalation of dust can lead to irritation of the respiratory tract.
INGESTION: May be irritating if inhaled.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $YCl_3 \cdot XH_2O$

Molecular Weight: 195.26 (anhy.)

CHEMICAL NAME	CAS#	%
Yttrium (III) Chloride Hydrate	12741-05-8	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
INHALATION: Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas and yttrium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store in a tightly sealed container.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Yttrium (III) Chloride Hexahydrate	1 mg/m^3	TWA	ACGIH
	1 mg/m^3	TWA	NIOSH

TWA: Time Weighted Average over 8 hours of work.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.
SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder or crystals
ODOR: None
MOLECULAR WEIGHT: 195.26 (anhy.)
BOILING POINT: No data available.
MELTING POINT: 100°C
SPECIFIC GRAVITY: 2.18
VAPOR DENSITY: No data available
SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Hydrogen chloride gas and yttrium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Oral (rat); TDLo: 28 gm/kg/28D-1. LD50 Oral – Rat – female - >=2,000 mgkg. LD50 Dermal – Rat – male and female - > 2,000 mg/kg. Intraperitoneal (mouse); LD50: 45 mg/kg.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
RTECS: ZG3160000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

TOXCIITY TO FISH: Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.62. mg/l - 96 h
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: Daphnia magna (Water flea): Exhibits high sensitivity, with a EC50 of 0.49 mg/L – 48 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 302/304: Not listed
SARA 311/312: Acute Health Hazard
CALIFORNIA PROP. 65: Not Listed

SECTION 16 OTHER INFORMATION

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DATE PREVIOUSLY REVISED: 03/23
DATE REVISED: 07/26
REVISION SUMMARY: Fax number removed. Updated the following Section(s) #11, #12 & #16. All other details in the document about the product remain unchanged.

EHS/SDS DEPT.