



SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name:

Yttrium hydride

Product Code: Y00390

- Supplier:Pfaltz & Bauer, Inc.172 E. Aurora StreetWaterbury, CT 06708 USA
- <u>Phone:</u> 203-574-0075
- FAX: 203-574-3181
- Emergency Phone: INFOTRAC, US: 1-800-535-5053 INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Dangerous when wet, Irritant, Reacts violently with water, Respiratory irritant

- <u>Acute Health Hazard:</u> Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.
- Chronic Health Hazard: Not Available

<u>HMIS Rating:</u> H: 2 F: 0 P: 2

<u>NFPA Rating:</u> H: 2 F: 0 R: 2

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

<u>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):</u> <u>GHS Classification in accordance with Regulation (EC) No 1272/2008:</u> Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 4), H332 Acute toxicity, oral (Category 4), H302 Serious eye damage/eye irritation (Category 2A), H319 Skin corrosion/irritation (Category 2), H315 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335 Substances and mixtures which, in contact with water, emit flammable gases (Category 2), H261

Pictogram:

Signal Word:	Danger
<u>Hazard Statement(s):</u>	 H261 In contact with water releases flammable gas. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.
<u>Precautionary Statement(s):</u>	 P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire. P231+P232 Handle under inert gas. Protect from moisture. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. 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. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P402+P404 Store in a dry place. Store in a closed container.
Supplemental Statement(s):	EUH014 Reacts violently with water

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name:	Yttrium hydride
CAS Number:	13598-57-7
MDL Number:	MFCD00085333
EINECS Number:	Not Available
Beilstein Registry Number:	Not Available

Molecular Formula:	YH₃
Molecular Weight:	91.93
Content:	As specified in product name.

SECTION 4: FIRST AID MEASURES

Eye Contact:	Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Skin Contact:	Wash skin with soap and water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Seek medical attention.
Inhalation:	Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

- Flash Point (°C): Not Available
- Explosion Limits: Not Available

<u>Auto Ignition</u> <u>Temperature (°C):</u>

- Extinguishing Media: Carbon dioxide, dry chemical powder or alcohol-resistant foam. Do not use water spray.
- <u>Protective Equipment:</u> Wear self-contained respirator and fully protective impervious suit.
- <u>Specific Hazards:</u> May emit hazardous fumes under fire conditions. Reacts violently with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not Available

Personal Protection:	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.
Environmental Protection:	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash

spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place. Store under inert gas. Store under nitrogen.
Moisture

Storage Temperature (°C): 15 to 30

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	lab equipmer	nt while hand	lling this prod	under a fume hood. Use proper uct. Keep away from of hazardous reaction.
Eye Protection:		•		r chemical safety goggles. Make n your vicinity.
Skin Protection:	Wear impervious gloves and protective clothing.			
Respiratory Protection:	Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.			
Exposure Limits:	<u>Country</u>	<u>Source</u>	Туре	Value
	USA	ACGIH	TWA	Not Available
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance:	Solid
Odor:	Not Available
Odor Threshold:	Not Available
Flash Point (°C):	Not Available
Auto Ignition Temperature (°C):	Not Available
UEL % by Volume:	Not Available
LEL % by Volume:	Not Available

Melting Point (°C):	Not Available
Boiling Point (°C):	Not Available
Evaporation Rate:	Not Available
pH Value:	Not Available
Density (g/cm ³):	Not Available
Refractive Index (n ²⁰ D):	Not Available
Viscosity:	Not Available
Solubility in Water:	REACTS VIOLENTLY WITH WATER
Solubility in Other:	Not Available
<u>Vapor Pressure (mmHg):</u>	Not Available
Vapor Density (Air=1):	Not Available

SECTION 10: STABILITY and REACTIVITY

Stability:	Stable under normal temperatures and pressures.
Incompatibility:	Oxidizing Agents, Acids, Alcohols, Water
Reactivity:	Product may react with incompatible materials to release other hazardous substances.
Conditions to Avoid:	Heat, flame, sparks, other ignition sources.
<u>Hazardous</u> Decomposition Products:	Yttrium oxides

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:	Not Available
Target Organs:	Not Available
Toxicity Data:	Not Available
Carcinogenicity:	National Toxicology Program (NTP) listed: Not Available

International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name:	Metal Hydrides, Water-Reactive, N.O.S.
DOT UN Number:	UN1409
DOT Hazard Class:	Class 4.3
DOT Packing Group:	PGII
IMDG Shipping Name:	Metal Hydrides, Water-Reactive, N.O.S.
IMDG UN Number:	UN1409
IMDG Hazard Class:	Class 4.3
IMDG Packing Group:	PGII
Marine Pollutant:	No
IATA Shipping Name:	Metal Hydrides, Water-Reactive, N.O.S.
IATA UN Number:	UN1409
IATA Hazard Class:	Class 4.3
IATA Packing Group:	PGII

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): Not Available

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

<u>Canada</u>

Canadian Domestic Substances List (DSL) listed: No

Canadian Non-Domestic Substances List (NDSL) listed: Yes

SECTION 16: OTHER INFORMATION

Date Prepared: 9/26/2022

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.