Material Safety Data Sheet

Product	H1 Glycan Cleavage Reagent
Catalog Number	WS0155
Composition	N_2H_4, Hydrazine, anhydrous (synonym; diamine)
CAS #	302-01-2
Hazard identification	Hazardous, Corrosive, Toxic, Flammable Liquid
First aid measures	SEEK MEDICAL ATTENTION. In case of contact: **Eyes** - irrigate with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. **Skin** - wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. **Ingestion** - wash out mouth with water provided person is conscious. Do not induce vomiting. **Inhalation** - move to a well ventilated area and clear nose and throat; if needed provide artificial respiration. Give oxygen if breathing is difficult.
Fire fighting measures	Emits toxic fumes under fire conditions; may explode when heated. Extinguishing media: carbon dioxide, dry chemical powder or spray.
Accidental release measures	Wear self-contained breathing apparatus. Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.
Handling/exposure controls	This chemical should be handled only in a hood. Eye shields should be worn. Do not breathe vapor. Do not get in eye, on skin or on clothing. Avoid prolonged or repeated exposure.
Storage	Keep tightly closed. Keep away from heat and open flame. Store in a cool, dry place. Handle under inert gas.

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Physical/chemical properties	Colorless oily liquid that fumes in air. Boiling point: 113.5°C at 760 mm Hg Molecular weight: 32.05 AMU Melting point: 1.4°C Vapor pressure: 14.4 mm Hg at 25°C Vapor density: 1.04 g/l (air = 1) Flash point: 38°C Autoignition temperature: 24°C on rust surface, 270°C on glass Water solubility: complete
Odor	Fishy or ammonia-like odor detectable at 3 to 4 ppm.
Stability and reactivity	Combustible. Gas forms explosive mixture with air. Incompatible with oxidizing agents, oxygen, acidic materials, halogens, metals, plastics and organic materials. Decomposition liberates nitrogen oxides.
Toxicological information	Causes burns. Toxic if inhaled, swallowed or absorbed through skin. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Target organs or systems include: nerves, blood, liver, kidneys and lungs. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Ecological information	Very toxic for fish.
Disposal information	Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Transport information	Contact ProZyme for transportation information.
Regulatory information	Data not available.