

Revision date 19-Dec-2023

# SAFETY DATA SHEET

Version 6

1. Identification		
Product identifier		
Product name	Fnu4HI	
Other means of identification		
Product No	R0178	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	This product is for research and development only	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address New England BioLabs 240 County Road Ipswich, MA 01938 USA		
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
Telefax	978-921-1350	
E-mail address	info@neb.com	
24 Hour Emergency Phone Number	Chemtrec +1 703-741-5970	

## 2. Hazard(s) identification

**Classification** 

Label elements

### Hazard statements

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

### Other information

No information available.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

Mixture

4. First-aid measures		
Description of first aid measures		
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
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### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

Control parameters Exposure Limits

### Appropriate engineering controls

**Engineering controls** 

Showers Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Ha

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Information on basic physical and	chemical properties	
Physical state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild	
Odor threshold	No information available	
Property	Values	Remarks • Method
Hq	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	392.78 °C / 739 °F	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Other information Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Durk density		

## 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products None known based on information supplied.	

## 11. Toxicological information

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available.	
Symptoms related to the physical	chemical and toxicological characteristics	
Symptoms	No information available.	
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated based on chapter 3.1 of the GHS document         ATEmix (oral)       25,200.00 mg/kg         ATEmix (dermal)       20,000.00 mg/kg         ATEmix (inhalation-gas)       99,999.00 ppm         ATEmix (inhalation-vapor)       99,999.00 mg/l         ATEmix (inhalation-dust/mist)       99,999.00 mg/l         O % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)		
Component Information		
Delayed and immediate effects as well as chronic effects from short and long-term exposureSkin corrosion/irritationNo information available.		
Serious eye damage/eye irritation	No information available.	
Respiratory or skin sensitization	iratory or skin sensitization No information available.	
Germ cell mutagenicity	No information available.	

Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

## 12. Ecological information

### Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulation	
Component Information	
Mobility in soil	No information available.
Other adverse effects	No information available.

13. Disposal considerations				
Waste treatment methods				
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.			
Contaminated packaging	Do not reuse empty containers.			

## 14. Transport information

DOT	Not regulated
<u>TDG</u>	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated

ADR	Not regulated

ADN

Not regulated

15. Regulatory information

### **Regulatory information**

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other info	ormation							
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability 1 Flammability 1	Instability 0 Physical hazards 0	Special hazards - Personal protection X				
Key or legend to a	Key or legend to abbreviations and acronyms used in the safety data sheet							
Legend Section 8 TWA Ceiling	EXPOSURE CONTROLS/PE TWA (time-weighted average) Maximum limit value		 STEL (Short Tern Skin designation	n Exposure Limit)				
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure Gu U.S. Environmenta U.S. Environmenta Food Research Jou Hazardous Substan International Unifor National Institute of Australia National I NIOSH (National In National Library of National Library of National Toxicology New Zealand's Che Organization for Ec	nce Database m Chemical Information Datab f Technology and Evaluation (N ndustrial Chemicals Notification istitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database ( y Program (NTP) emical Classification and Inform conomic Co-operation and Deve conomic Co-operation and Deve conomic Co-operation and Deve	ry (ATSDR) Database secticide, Fungicide, and action Volume Chemicals ase (IUCLID) IITE) and Assessment Scher and Health) CIP) NLM PUBMED) nation Database (CCID) elopment Environment, Helopment High Production	Rodenticide Act ne (NICNAS) lealth, and Safety Publication n Volume Chemicals Program					
Prepared by	Environme	ental, Health and Safety,	978-927-5054					
Revision date	19-Dec-20	23						
subsequent revisi or implied) of any	No information in this SDS is p ion date, if any), and is to be kind and we make no warran designated product as ship	used only as a guide. ties or merchantability	This SDS does not constitue or fitness for a particular p	ute a guarantee (express ourpose. This information				

or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of New England Biolabs, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

**End of Safety Data Sheet**