

# Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Date of issue: 17/12/2010

**NDLM-860** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier** 1.1.

Product form : Substance

Substance name : AMMONIA (15N, 98%+; D3, 98%) EC index no : 007-001-00-5 (Unlabeled) EC no : 231-635-3 (Unlabeled)

CAS No : 22364-56-3 Product code : NDLM-860 \*ND3 Formula

Other means of identification Also applicable to:

NDLM-860-1-LB

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only.

#### 1.2.2. Uses advised against

No additional information available

## Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com

# **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Gas 2 H221 H280 Compressed gas Acute Tox. 3 (Inhalation) H331 H314 Skin Corr. 1A H318 Eye Dam. 1 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R5 R10 T; R23 C; R35 Xi; R41 N; R50/53

Full text of R-phrases: see section 16

### Classification (GHS-US)

Flam. Gas 2 H221 Compressed gas H280 Acute Tox. 3 (Inhalation) H331

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 Skin Corr. 1A
 H314

 Eye Dam. 1
 H318

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

## Adverse physicochemical, human health and environmental effects

Lungs, Central nervous system, Liver, Kidney.

#### 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









Signal word (CLP) : Danger

Hazard statements (CLP) : H221 - Flammable gas

H280 - Contains gas under pressure; may explode if heated H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P260 - Do not breathe dust, fume, gas, mist, spray, vapors

P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

## **GHS-US labeling**

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H221 - Flammable gas

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H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P260 - Do not breathe dust, fume, gas, mist, spray, vapors P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

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

P310 - Immediately call a poison center or doctor/physician P311 - Call a POISON CENTER or doctor/physician

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P363 - Wash contaminated clothing before reuse

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely

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P381 - Eliminate all ignition sources if safe to do so

P391 - Collect spillage

P403 - Store in a well-ventilated place

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P410+P403 - Protect from sunlight. Store in a well-ventilated place

P501 - Dispose of contents/container to Comply with applicable regulations.

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1 Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
AMMONIA (15N, 98%+; D3, 98%) (Main constituent)	(CAS No) 22364-56-3 (EC no) 231-635-3 (Unlabeled) (EC index no) 007-001-00-5 (Unlabeled)	100	R5 R10 T; R23 C; R35 Xi; R41 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
AMMONIA (15N, 98%+; D3, 98%) (Main constituent)	(CAS No) 22364-56-3 (EC no) 231-635-3 (Unlabeled) (EC index no) 007-001-00-5 (Unlabeled)	100	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
AMMONIA (15N, 98%+; D3, 98%) (Main constituent)	(CAS No) 22364-56-3	100	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1. H410

Full text of H-phrases: see section 16

# 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

# 4.1. Description of first aid measures

First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Take victim immediately to hospital. Consult a physician.

First-aid measures after eye contact : Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at

least 15 minutes and consult a physician.

First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Symptoms/injuries after skin contact : May be harmful if absorbed through the skin. Causes skin burns.

Symptoms/injuries after eye contact : Causes eye burns. Causes serious eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

## 5.2. Special hazards arising from the substance or mixture

Reactivity : Not available.

#### 5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Use water spray to cool unopened containers.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low areas.

## 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations.

#### 6.4. Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of

ignition - No smoking. Take measures to prevent build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

# 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

AMMONIA (15N, 98%+; D3, 9	AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25.0000000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	35.0000000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation Eye damage.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	18 mg/m³ USA. NIOSH Recommended Exposure Limits - Often used in an aquenous solution.
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm USA. NIOSH Recommended Exposure Limits - Often used in an aquenous solution.
USA NIOSH	NIOSH REL (STEL) (mg/m³)	27 mg/m³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA NIOSH	NIOSH REL (STEL) (ppm)	35 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA NIOSH	Remark (NIOSH)	ST 35.000000 ppm / 27.000000 mg/m3 USA. NIOSH Recommended Exposure Limits - Often used in an aquenous solution.

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AMMONIA (15N, 98%+; D3,	AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	35 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	50.0000000000 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (STEL) (mg/m³)	27 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	35.0000000000 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	18 mg/m³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)

#### 8.2. Exposure controls

Appropriate engineering controls : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after

handling the product.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested

and approved under appropriate government standards such as NIOSH or EN 166.

Skin and body protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Compressed Gas.

Molecular mass : 21.04 g/mol (Labeled)

Color : Colorless.

Odor : No data available.

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : -78 °C (-108 °F)

Freezing point : No data available

Boiling point : -33 °C (-27 °F) - lit.

Flash point : 132 °C (270 °F) - closed cup

Auto-ignition temperature : 651 °C (1,204 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 6402 hPa (4,802 mmHg) at 15.50 °C (59.90 °F) ; 8,866 hPa (6,650 mmHg at 21 °C (70 °F)

Relative vapor density at 20 °C : 0.59 - (Air = 1.0)
Relative density : No data available
Relative gas density : 0.59 g/cm3
Solubility : Water: Soluble
Log Pow : No data available
Log Kow : No data available

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: No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive properties : No data available Oxidizing properties : No data available : 15 - 25 % (V) **Explosive limits** 

#### Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Not available.

#### 10.2. **Chemical stability**

Stable if stored under recommended conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Heat, flames and sparks.

#### Incompatible materials

Oxidizing agents, Iron, Zinc, Copper, Silver/silver oxides. Cadmium/cadmium oxides, alcohols, acids, halogens, aldehydes.

#### **Hazardous decomposition products**

Products formed under fire conditions. - Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Toxic if inhaled.

AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)		
LC50 inhalation rat (ppm)	2000 ppm 4 h	
ATE CLP (gases)	700.000 ppmV/4h	
ATE CLP (vapors)	3.000 mg/l/4h	
ATE CLP (dust. mist)	0.500 mg/l/4h	

Skin corrosion/irritation : Causes severe skin burns and eye damage.

No data available

Serious eye damage/irritation Causes serious eye damage.

No data available

Respiratory or skin sensitization Not available

No data available

Germ cell mutagenicity Not available Not classified Carcinogenicity Reproductive toxicity Not available Specific target organ toxicity (single exposure) Not classified

No data available.

Specific target organ toxicity (repeated

exposure)

Aspiration hazard

Not classified No data available.

: Not classified

Potential Adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated. Liver - Irregularities - Based on Human Evidence.

Symptoms/injuries after inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Symptoms/injuries after skin contact May be harmful if absorbed through the skin. Causes skin burns.

Symptoms/injuries after eye contact : Causes eye burns. Causes serious eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed.

# **SECTION 12: Ecological information**

### **Toxicity**

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AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)		
	EC50 Daphnia 1	25.4 mg/l Daphnia magna (Water flea) - 48 h

#### 12.2. Persistence and degradability

AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)		
	Persistence and degradability	Not available.

#### 12.3. **Bioaccumulative potential**

AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)		
	Bioaccumulative potential	Not available.

#### Mobility in soil

12.4. Wobility III 3011	
AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)	
Ecology - soil	Not available.

#### Results of PBT and vPvB assessment

No additional information available

#### Other adverse effects 12.6.

Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
	Very toxic to aquatic organisms.

# SECTION 13: Disposal considerations

#### Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

Waste disposal recommendations Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

## **UN** number

UN-No.(DOT) : 1005 DOT NA no. UN1005

### **UN** proper shipping name

Proper Shipping Name (DOT) : Ammonia, anhydrous

Transport hazard class(es) (DOT) : 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115

Hazard labels (DOT) 2.3 - Poison gas

8 - Corrosive



**DOT Symbols** : I - Proper shipping name appropriate for international and domestic transportation

DOT Special Provisions (49 CFR 172.102) : 4 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone D (see

173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

N87 - The use of copper valves on UN pressure receptacles is prohibited.

T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) None DOT Packaging Non Bulk (49 CFR 173.xxx) : 304 DOT Packaging Bulk (49 CFR 173.xxx) : 314;315 DOT RQ : 100 lbs Marine pollutant : No



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#### 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : IATA Passenger/Cargo: Not permitted for transport.

**Overland transport** 

Class (ADR) : 2 - Gases
Hazard identification number (Kemler No.) : 268
Classification code (ADR) : 2TC

Hazard labels (ADR) : 2.3 - Toxic gases

8 - Corrosive substances



Orange plates

268 1005

Tunnel restriction code : C/D
Limited quantities (ADR) 0

EAC : 2RE
APP : A(c)

Excepted quantities (ADR) : E0

Transport by sea

**DOT Vessel Stowage Other** 

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel

carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger

vessels in which the limiting number of passengers is exceeded.

: 40 - Stow "clear of living quarters",52 - Stow "separated from" acids,57 - Stow "separated from"

chlorine

MFAG-No : 125

Air transport

DOT Quantity Limitations Passenger aircraft/rail : Forbidden

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : Forbidden

CFR 175.75)

Civil Aeronautics Law : Gases under pressure/Gases toxic under pressure

14.4. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : IATA Passenger/Cargo: Not permitted for transport.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

15.1. US Federal regulations

AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)

Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)

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AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)	
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Immediate (acute) health hazard Delayed (chronic) health hazard

## 15.2. International regulations

## **CANADA**

# AMMONIA (15N, 98%+; D3, 98%) (22364-56-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

# 15.3. US State regulations

AMMONIA (15N, 98%+; D3, 98%)(22364-56-3)	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

# Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Gas 2	Flammable gases Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H221	Flammable gas
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R23	Toxic by inhalation
R35	Causes severe burns
R41	Risk of serious damage to eyes
R5	Heating may cause an explosion
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
N	Dangerous for the environment
Т	Toxic
Xi	Irritant

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

given

NFPA fire hazard : 0 - Materials that will not burn.



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NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating** 

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 1 Slight Hazard Physical : 1 Slight Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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