

1 - Product and Company Information

ProductName N-SELECTRIDE, 1.0M SOLUTION IN TETRAHYDROFURAN

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Highly flammable. Reacts violently with water, liberating extremely flammable gases. May form explosive peroxides. Harmful if swallowed. Causes burns.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
N-SELECTRIDE, 1.0M SOLUTION IN TETRAHYDROFURAN	67276-04-4	214-235-3	None

Ingredient Name	Percent	CAS #	EC no	Annex I
N-SELECTRIDE	23.1	67276-04-4	214-235-3	None

Symbols: F-C

R-Phrases: 14/15-22-34

Reacts violently with water, liberating extremely flammable gases. Harmful if swallowed. Causes burns.

TETRAHYDROFURAN 76.9 109-99-9 203-726-8 603-025-00-0

(Inhibitor free)

Symbols: F-Xi

R-Phrases: 11-19-36/37

Highly flammable. May form explosive peroxides. Irritating to eyes and respiratory system.

Formula C12H28BNa

Molecular Weight 206.15 AMU

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable: Do not use water.

SPECIAL RISKS

Specific Hazard(s): Extremely flammable. Vapor may travel considerable distance to source of ignition and flash back.

Emits toxic fumes under fire conditions.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Material readily reacts with water generating flammable and/or explosive hydrogen gas

Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Incompatible Materials: Do not allow contact with water

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before

reuse. Discard contaminated shoes.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other

protective clothing. Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance Physical State: Liquid

Property	Value	At Temperature or Pressure
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pH N/A

BP/BP Range N/A

MP/MP Range N/A

Flash Point - 15.0 °C Method: closed cup

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density 0.893 g/cm3

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content N/A

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility N/A

10 - Stability and Reactivity

STABILITY

Materials to Avoid: Water, Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Borane/boron oxides.

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

Narcotic effect. Coughing, chest pains, difficulty in breathing.

Nausea, dizziness, and headache. Unconsciousness. To the best of

our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated. Material is

extremely destructive to tissue of the mucous membranes and

upper respiratory tract, eyes, and skin. Inhalation may result

in spasm, inflammation and edema of the larynxand bronchi,

chemical pneumonitis, and pulmonary edema. Symptoms of exposure

may include burning sensation, coughing, wheezing, laryngitis,

shortness of breath, headache, nausea, and vomiting. Can cause

CNS depression. Exposure can cause:

ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Kidneys. Liver. Central nervous system.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is

highly flammable. Observe all federal, state, and local

environmental regulations.

14 - Transport Information

RID/ADR

UN#: 3399

Class: 4.3

PG: I

Subrisk: 3

Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable

IMDG

UN#: 3399

Class: 4.3

PG: I

Subrisk: 3

Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable

Marine Pollutant: No

Severe Marine Pollutant: No

Technical Name: Required

IATA

UN#: 3399

Class: 4.3

PG: I

Subrisk: 3

Proper Shipping Name: Organometallic substance, liquid, water-reactive, flammable

Inhalation Packing Group I: No

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F-C

Highly Flammable. Corrosive.

R-PHRASES: 11-14/15-19-22-34

Highly flammable. Reacts violently with water, liberating

extremely flammable gases. May form explosive peroxides.

Harmful if swallowed. Causes burns.

S-PHRASES: 16-26-27-36/37/39-45

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated

clothing. Wear suitable protective clothing, gloves, and

eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 2915

Classification according to appendix 3.

16 - Other Information



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WARRANTY:

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