



Northern Technologies International Corporation
4201 Woodland Road – Circle Pines, MN 55014
Tel: 763-225-6600 - Fax: 763-225-6645 - email: sales@zerust.com

Material Safety Data Sheet

Section 1 – Product Name and Company Identification

Northern Technologies International Corporation
4201 Woodland Road
Circle Pines, MN 55014
Tel: 763-225-6600
Fax: 763-225-6645

In case of Emergency:
(24 hours /day 7 days/week)
CHEMTREC 800-424-9300
Direct Dial: 703-527-3887

Product Name:

Zerust Vapor Capsules VC2-1, VC2-2, VC6-1 and VC6-2; Zerust Pipe Strip PS2-10, PS2-16
January 11-2007
4-4.3-12-1-263 Rev A

Date:

Document No.:

Section 2 - Composition/Constituent Details

Product Class

CAS Number

Color

Odor

Hazardous Ingredients

7632-00-0 (1.0 – 3.0%)

Yellow
odorless

Sodium nitrite- This hazardous ingredient is combined with antioxidants in a thermoplastic matrix. The resulting active system is placed inside a foam and plastics device to facilitate installation of the device and to prevent human contact with the active ingredients. The vapor capsule must not be disassembled.

Section 3 – Possible Hazards

Fire hazard/combustible

Treat as a Polyether foam/Polyethylene fire

Section 4 – First Aid Procedures

Inhalation

Move person to fresh air; if effects occurs, consult a physician

Skin contact

Wash with soap and water

Eye contact

Flush with large amounts of water for 15 minutes. If effect occurs consult a physician

Ingestion

Give water and induce vomiting, consult a physician

Section 5 – Fire-fighting Procedures

Suitable extinguishing agents:

Water, carbon dioxide, dry chemical, chemical foam

Unsuitable extinguishing agents on safety grounds:

Treat as polyether foam/polyethylene fire

Particular hazards with the substance or preparation itself, its combustion products or resulting gases:

Oxides of carbon and nitrogen

Special protective equipment when fire-fighting:

Approved self contained breathing apparatus, and protective fire fighting clothing

Additional information:

Keep people away. Isolate fire ad deny unnecessary entry. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.



Northern Technologies International Corporation
4201 Woodland Road – Circle Pines, MN 55014
Tel: 763-225-6600 - Fax: 763-225-6645 - email: sales@zerust.com

Section 6 – Procedures in the Event of Accidental Release

Safety measures with regard to people: Clean up immediately to prevent slip hazard
Environmental protection measures: Keep material from entering into ditches, sewers and waterways and/or ground water.
Cleaning/collection measures: If disassembled use protective clothing and approved respirator if dust is present
Additional information: Sweep up and place in suitable and properly labeled containers.

Section 7 – Handling and Storage

Handling Store unused materials in original packaging until ready for use.
Instructions for safe handling:
Instructions for fire and explosion prevention: No smoking, open flames or sources of ignition in handling and storage area.
Storage Practice first in first out rotation
Store-room and container requirements:
Storage conditions Store in accordance with good manufacturing practices

Max. storage time 1 year
Water hazard group under Water Resources Management Law: Not available
Hazard class under the Ordinance Regulating Inflammable Liquids: Not available

Section 8 – Exposure Limited and Individual Protective Equipment

Additional information with regard to the layout of technical plant: Keep away from ignition sources and solvents
Constituents where working limits have to be observed: Good general ventilation should be sufficient for most conditions.
Additional Information: None
Individual Protective Equipment
General Protective measures and hygiene: Do Not disassemble
Respiratory protection: None required if used as intended
Protective gloves: None required if used as intended
Protective goggles: None required if used as intended
Protective clothing: None required if used as intended

Section 9 – Physical and Chemical Properties

Appearance plastic/rectangular shape
Form:
Color: Yellow
Odor: odorless
Safety Data Decomposition of internal contained chemical is noticeable above 85°C
Melting point or range: 425°F/218°C (Method C.O.C.)
Flash point:
Inflammability: Not applicable
Explosion hazard: Not applicable
Density: Not applicable
Metal corrosion – Aluminum: Not applicable
Steel:



Northern Technologies International Corporation
4201 Woodland Road – Circle Pines, MN 55014
Tel: 763-225-6600 - Fax: 763-225-6645 - email: sales@zerust.com

Section 10 – Stability and Reactivity

Conditions to be avoided

Ignition sources and solvents

Decomposition temperature:

None

Hazardous reactions on change in pressure, action of light, vibration:

Substances to be avoided/hazardous reactions:

Acids, oxidizers and reducing agents can react with their internally contained chemical system

Hazardous decomposition products:

Will not occur

Section 11 – Toxicological Information

Acute toxicity:

None if used as intended. (Do not eat) (Do not disassemble) Cyanosis may occur if internal active pellets are eaten in large doses. This would be a worst case symptom and would pertain to the active ingredient in its raw form.

Toxicological effect:

Not determined

Irritation and sensitization:

None if used as intended (do not disassemble)

Section 12 – Ecological Information

Not determined. Keep material from entering into ditches, sewers and waterways and/or ground water.

Section 13 – Instructions on Disposal

Unused Product

Recommended means of disposal:

Consult a licensed professional waste disposal service to dispose of this material. Observe all federal state, and local environmental regulations

Waste description:

N/A

Conditions of return:

N/A

Used Product

Recommended means of disposal:

Consult a licensed professional waste disposal service to dispose of this material. Observe all federal state, and local environmental regulations

Waste description:

N/A

Conditions of return:

N/A

Unclean packaging:

N/A

Section 14 – Transportation Details

Proper Shipping Name

Not Regulated according to IATA/ICAO/IMDG/DOT

DOT Shipping Class

Not Regulated by IATA/ICAO/IMDG/DOT

DOT Hazard Classification

Not Regulated by IATA/ICAO/IMDG/DOT

DOT Labels

Not Regulated by IATA/ICAO/IMDG/DOT

DOT Placard

Not Regulated by IATA/ICAO/IMDG/DOT

Identification Number

Not Regulated by IATA/ICAO/IMDG/DOT

DOT Markings

Not Regulated by IATA/ICAO/IMDG/DOT

Hazardous Substance/RQ

Not Regulated by IATA/ICAO/IMDG/DOT



Northern Technologies International Corporation
 4201 Woodland Road – Circle Pines, MN 55014
 Tel: 763-225-6600 - Fax: 763-225-6645 - email: sales@zerust.com

Section 15 – Regulatory Information
OSHA Exposure Limits Substance

ACGIH TLV-TWA
Carcinogenic potential
TSCA

This product is not a hazardous chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200
 N/A
 None
 All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30

Section 16 – Additional Information
Intended use:

Limitations of use:

Corrosion inhibitor for industrial applications only
 Not intended for household uses

Section 17 – THIS Label Information

HEALTH
1

FLAMMABILITY
0

REACTIVITY
0

PERSONAL PROTECTION
A