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
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Product Name: Zerust Vapor Capsules VC2-1, VC2-2, VC6-1 and VC6-2; Zerust Pipe Strip PS2-10, PS2-16
Date: January 11-2007
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Section 2 - Composition/Constituent Details
Product Class
CAS Number
7632-00-0        (1.0 – 3.0%)
Color
Yellow
Odor
odorless

Hazardous Ingredients
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.
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
Instructions for safe handling: Store unused materials in original packaging until ready for use.
Instructions for fire and explosion prevention: No smoking, open flames or sources of ignition in handling and storage area.
Storage
Store-room and container requirements: Practice first in first out rotation
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: Not applicable
Inflammability: Not applicable
Explosion hazard: Not applicable
Density: Not applicable
Metal corrosion – Aluminum: Not applicable
Steel: Not applicable
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: None
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
Section 15 – Regulatory Information

OSHA Exposure Limits Substance

This product is not a hazardous chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

ACGIH TLV-TWA
N/A

Carcinogenic potential
None

TSCA
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:
Corrosion inhibitor for industrial applications only

Limitations of use:
Not intended for household uses

Section 17 – THIS Label Information

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<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PERSONAL PROTECTION</th>
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