

MATERIAL SAFETY DATA SHEET

PANEF CORPORATION
5700 West Douglas Avenue
Milwaukee, WI 53218

Phone: (414) 464-7200
Toll Free: (800) 448-1247
Fax: (414) 462-0980

Panef Item: LD-1, LD-24, LD-30
Description: Lock Deicer

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SECTION I — PRODUCT IDENTIFICATION

Product Name: Panef Lock Deicer LD-1, LD-24, LD-30
Generic Name: Lock Deicer
Chemical Family: Aqueous/Petroleum Hydrocarbons
CAS#: Not Applicable - Mixture

SECTION II — HAZARDOUS INGREDIENT IDENTITY INFORMATION

| <u>Ingredient</u> | <u>CAS#</u> | <u>OSHA PEL</u> | <u>ACGH TLV</u> | <u>APPROX. PERCENT</u> |
|-------------------------------------|-------------|---------------------|---------------------|----------------------------|
| Propylene Glycol | 57-55-6 | Not Established | | 55-60 |
| Sodium 2 Mercapto- Benzothiazole | 2492-26-4 | Not Established | | < 1 |

SECTION III — PHYSICAL DATA

Boiling Point (760mm Hg): 212...F
Vapor Density (Air=1): 2.4
Evaporation Rate (Butyl Acetate=1): 0.06
Solubility in Water: Miscible
Appearance and Odor: Clear, water white liquid with little or no odor.

Specific Gravity (Water=1): 1.03
Vapor Pressure (mm Hg@25...C): 24.0
% Volatile (Vol %): 43
Wt/gal (lbs): 8.56

SECTION IV — FIRE AND EXPLOSION DATA

Flash Point (Method Used): 210.F. PMCC
Flammable Limits (% by Vol.) LEL: NA UEL: NA
Fire Extinguishing Media: Foam X CO2 X Dry Chemical X Water Fog X Other X
Special Fire Fighting Procedures: Basically self-extinguishing until water has evaporated.
Unusual Fire and Explosion Hazards: NONE
Hazardous Products Formed by Fire or Thermal Decomposition: Carbon monoxide and/or carbon dioxide in the unlikely event of a raging fire.

SECTION VI — REACTIVITY AND STABILITY DATA

Product is: Stable X Unstable ___
Conditions to Avoid:
Incompatibility (Materials to avoid): NONE
Hazardous Polymerization: Will Not Occur X May Occur ___

SECTION VII — HEALTH HAZARD DATA

Route of Entry: Inhalation Skin Eyes Ingestion

Health Hazard:

Acute: May cause eye irritation.

Chronic: NONE

Symptoms of Exposure: Repeated skin contact may cause skin irritation.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush thoroughly with water for 10 minutes. If redness persists get medical attention.

Inhalation: Remove to fresh air.

Ingestion: If conscious, give 2 glasses of water and induce vomiting. Call a physician.

Skin: Wash with soap and water.

Carcinogen: No Yes

SECTION VIII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Recover free product. Use absorbent on spill areas. Keep product out of sewers and waterways. Avoid skin contact.

Waste disposal methods: Incinerate or bury according to local, state and federal laws.

Precautions to used in handling and storage: Keep containers closed and away from open flames.

SECTION IX — PERSONAL PROTECTION/RESPIRATORY PROTECTION

Ventilation — Local: General shop ventilation usually adequate.

Mechanical: If needed to control fumes, mist or spray.

Respiratory Protection: None required in normal use.

Protective Gloves: Neoprene or nitrile gloves recommended.

Eye Protection: Safety glasses or goggles recommended when eye contact may occur.

Other Protection: Not generally required with this product.

Hygienic Practices: Wash hands with soap and water after handling product. Remove contaminated clothing and launder before reuse.

Special Precautions: Keep containers closed when not in use. Do not handle or store near excess heat, sparks or open flame. Keep out of reach of children. Do not ingest.

SECTION X — REGULATORY INFORMATION

SARA Title III f302, 304, 311 & 312 - Components in this product at a level which could require reporting under this statute are: NONE

SARA Title III f313 — Components present in this product which may require reporting under this statute are: NONE

The data given in this Material Safety Data Sheet is based on information which is considered to be accurate and current at the time of issue. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from their use.

Replaces all previous editions.

Prepared by: HRE

Emergency Phone Number 1-800-448-1247.