

SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: RUST BUSTER® Rust Penetrant
Product Code: DR1
Product Use: Loosens rusted bolts, screws, shafts, piping and all types of “frozen” connections and assemblies.
Distributed by: National Refrigeration Products
 985 Wheeler Way
 Langhorne, PA 19047
 E-mail Contact: info@nrproducts.com

Phone Number: (215)638-8909
24-hour Emergency: CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

2.1 Classification of the substance or mixture according to GHS Classifications (UNECE 3rd Revised Edition):

Aspiration Hazard Cat. 1; H304
 Flammable liquid Cat. 4; H227

2.2 Label elements:



Danger.
 May be fatal if swallowed and enters airways.
 Combustible liquid.

Response

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P331: Do not induce vomiting.
 P210: Keep away from flames and hot surfaces. No smoking.
 P280: Wear protective gloves/ eye protection /face protection.
 P370+P378: In case of fire use water fog, dry chemical, CO2 or appropriate foam for extinction.

Storage

P403+P235: Store in a well ventilated place. Keep cool.
 P405: Store locked up.

Disposal

P501: Recycle and or dispose of contents/containers to hazardous waste treatment or remove by licensed waste removal company: in accordance with local/regional/national/ international regulations.

2.4 Other hazard classifications:

USA: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Canada: This is a controlled product under WHMIS.



B3

European Communities (EC): This product is classified as hazardous according to CLP Regulation (EC) No 1272/2008.

Section 3: Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>GHS Classifications</u> according to UNECE 3 rd Revised Edition
Distillates (petroleum), hydrotreated light	64742-47-8	100	Asp. Tox. Cat. 1; H304 Flamm. Liq. Cat. 4; H227

SAFETY DATA SHEET

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation: If symptoms are experienced, remove source of contamination or have victim move to fresh air. Obtain medical advice.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelids open. If irritation persists, obtain medical attention.

Skin Contact: If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Ingestion: If swallowed, immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed:

Inhalation: Exposures to high vapor or mist concentrations can cause respiratory tract irritation, dizziness and headache.

Ingestion: Not an expected route of exposure with normal use of the product. Harmful if aspirated into the lungs during swallowing and vomiting. Aspiration into the lungs may cause pulmonary edema, a life-threatening condition; symptoms of pulmonary edema may be delayed several hours.

4.3 Indication of any immediate medical attention and special treatment needed:

Aspiration hazard, get immediate medical advice/attention if swallowed.

Section 5: Fire Fighting Measures

5.1 Extinguishing media:

For small fires, use dry chemicals, carbon dioxide, appropriate foam, or inert gas (nitrogen).

For large fires, use appropriate foam, water fog, or water spray. Water can be used to cool fire-exposed containers. Do not use water jet; may spread the fire.

5.2 Special hazards arising from the substance:

Combustible liquid. NFPA Class-III. Flashpoint: 61 - 66°C ASTM D-56

Liquid can float on water and may travel to distant locations and/or spread fire.

Heat may cause containers to rupture and explode.

This material releases vapors when heated above ambient temperatures. Vapors can cause a flash fire. Vapors can travel to a source of ignition and flashback. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers.

Burning liquid will float on water.

5.3 Advice for firefighters:

If involved in a fire, combustion may produce toxic and irritating fumes and gases. Carbon dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons.

As for any fire, evacuate the area and fight the fire from a safe distance. Firefighters must wear full protective clothing and positive pressure self-contained breathing apparatus.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Shut off or extinguish all sources of ignition. Avoid contact with skin and eyes. Ventilate the area. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.

6.2 Environmental precautions:

Bulk releases are not anticipated under normal conditions. Prevent the liquid from entering sewers or waterways.

6.3 Methods and material for containment and cleaning up:

Stop the spill if it is safe to do so.

Clean up spills immediately. Absorb spilled material with dry earth, sand, or other non-combustible absorbent material and transfer to appropriate, covered and labeled waste containers.

SAFETY DATA SHEET

Section 6: Accidental Release Measures, continued

6.4 Additional Information:

See Section 8 for information on selection of personal protective equipment.
See Section 13 for information on disposal of spilled product and contaminated absorbents.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Keep out of reach of children.
Avoid breathing vapors. Avoid contact with skin and eyes.
Do not use near hot surfaces or flames.
No smoking.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well ventilated place. Keep cool. Keep containers tightly closed when not in use.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters:

Occupational Exposure Limits:

Consult local authorities for acceptable exposure limits.

<u>Component</u>	<u>ACGIH TLV</u> (8-hr. TWA) (mg/m ³)	<u>U.S. OSHA PEL</u> (8-hr. TWA) (mg/m ³)	<u>British Columbia (Canada)</u> TWA (mg/m ³)
Kerosene/Jet fuel -as total hydrocarbon vapor	200 mg/m ³ Skin	Not established	200 mg/m ³ Skin

8.2 Exposure controls:

Engineering Controls:

General ventilation is normally adequate. Provide adequate ventilation to keep vapor concentrations below the exposure limits listed above particularly in confined areas or when spray mists are generated.

Personal Protection: Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

Eye/Face Protection: Not required for normal use. Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

Skin Protection: Not required for normal use. Wear heavy duty gloves made of nitrile or Viton when needed to prevent repeated or prolonged skin contact.

Respiratory Protection: If ventilation and other engineering controls and work practices are not effective in controlling exposure to mists/aerosols of this material, then wear suitable personal protective equipment including approved respiratory protective equipment (RPE). In workplaces where respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Consult with respirator manufacturer to determine respirator selection, use and limitations.

Other Protection: If product comes in contact with clothing, immediately remove soaked clothing. Promptly remove and discard contaminated leather goods (e.g. watchbands, belts).

SAFETY DATA SHEET

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:	
Appearance:	Liquid, color less.
Odor:	Hydrocarbon odor.
Odor threshold:	Not applicable
pH:	Not applicable
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	>179°C (>354°F)
Flash point:	>61°C (>142°F)
Flammability	Combustible liquid
Auto-ignition temperature:	Not available
Upper/lower flammability or explosive limits:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available
Sensitivity to mechanical impact:	Not available
Sensitivity to static discharge:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	>0.78 (water = 1)
Solubility (is):	Insoluble in water.
Partition coefficient (n-octane/water):	Not available
Decomposition temperature:	Not available
Viscosity:	1.38 cSt @ 100°C ASTM D445

Section 10: Stability and Reactivity

10.1 Reactivity:

Not classified for reactivity hazards.

10.2 Chemical Stability:

Stable at normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Do not use in conditions of heat or near open flames and sparks.

10.5 Incompatible Materials:

Incompatible with strong acids, alkalis, and oxidizers such as liquid chlorine and oxygen.

10.6 Hazardous Decomposition Products:

Combustion may produce irritating and/or toxic gases.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

Acute Health Effects:

Inhalation: This product does not easily form a vapor; inhalation exposure is unlikely to occur, unless this material is heated or misted. Exposures to high vapor or mist concentrations can cause respiratory tract irritation and central nervous system depression. Symptoms of central nervous system (CNS) depression include dizziness, headache, nausea, fatigue, vomiting and loss of coordination.

Ingestion: Not an expected route of exposure with normal use of the product. Harmful if aspirated into the lungs during swallowing and vomiting. Aspiration into the lungs may cause pulmonary edema, a life-threatening condition; symptoms of pulmonary edema may be delayed several hours.

Skin: Product can cause mild to moderate skin irritation when in prolonged contact with skin.

Eye: Direct contact with the liquid may cause irritation.

SAFETY DATA SHEET

Section 11: Toxicological Information, continued

Acute Toxicity Data::

<u>Component Substance</u>	<u>LD₅₀ Oral</u> (mg/kg)	<u>LD₅₀ Dermal</u> (mg/kg)	<u>LC₅₀ Inhalation</u> (4 hrs.)
Distillates (petroleum), hydrotreated light	>5 000 (rat)	>2 000 (rabbit)	>2 mg/L (rat)

Chronic Health Effects:

Repeated or prolonged skin contact may cause dermatitis and/or skin dryness and cracking.
Delayed effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Ingestion is not an expected route of exposure when product is used for its intended purpose.

Sensitization:

No evidence of skin sensitization effect in animal studies.

Neurological Effects:

Repeated and prolonged occupational over-exposure to solvents has been associated with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome").

Genetic Effects:

No evidence of genotoxicity based on *in vivo* and *in vitro* studies.

Reproductive Effects:

Data are not available.

Developmental Effects:

Not classified as a developmental toxin. In animal studies, toxic effects on the offspring were reported at doses that also caused maternal toxicity.

Target Organ Effects:

Long-term over-exposures to petroleum distillates, resulting from misuse of the product, by ingestion or inhalation may cause damage to the following organs: kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Carcinogenicity:

This product is not known to contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

ACGIH designates Distillates (petroleum), hydrotreated light as A3 – confirmed animal carcinogen with unknown relevance to humans. IARC: (International Agency for Research on Cancer) evaluation for distillate light fuel oils (including kerosenes) lists this substance in Group 3 – The agent is not classifiable as to carcinogenicity in humans.

Medical Conditions Aggravated by Exposure:

Repeated skin contact may aggravate an existing dermatitis.
Disorders of the Respiratory System, Liver, Kidneys and Central Nervous System (CNS) may be aggravated by over-exposure by inhalation or ingestion of this material.

Interactions With Other Chemicals:

Data are not available.

Section 12: Ecological Information

12.1 Toxicity:

96 Hr LC₅₀ *Pimephales promelas*: 45 mg/L [flow-through]
96 Hr LC₅₀ *Lepomis macrochirus*: 2.2mg/L [static]
96 Hr LC₅₀ *Oncorhynchus mykiss*: 2.4mg/L [static]

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not expected to bioaccumulate.

12.4 Mobility in soil:

Not available

SAFETY DATA SHEET

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Do NOT discard into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. Dispose of in accordance with local, state/provincial and federal laws and regulations.

The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, National Refrigeration Products does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

Section 14: Transport Information:

Transport Regulations:

U.S. Hazardous Materials Regulation (DOT 49CFR): NA1993, Combustible liquid n.o.s. (Petroleum distillates)

Canadian Transportation of Dangerous Goods (TDG): Not regulated as a dangerous good for transport.

IMO Classification: Not regulated as a dangerous good for transport.

ICAO/IATA Classification: Not regulated as a dangerous good for transport.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

USA

OSHA: Hazardous Chemical according to OSHA Hazard Communication Standard 29 CFR 1910.120 (2012).

SARA Title III

Sec. 302/304: None
Sec: 311/312: Immediate health; Combustible
Sec. 313: None
CERCLA RQ: None

California Prop 65: Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification:

B3 – Combustible liquid

DSL Status:

All component substances listed on the DSL (Domestic Substances List).

NPRI Substances:

Hydrotreated light distillate: Part 5 Substance

Europe

Classification of the substance or mixture according to CLP Regulation (EC) No 1272/2008.
Aspiration Hazard Cat. 1; H304
Flammable liquid Cat. 4; H227

SAFETY DATA SHEET

Section 16: Other Information

Preparation Information:

Revision date: February 11, 2013

References and sources for data:

CCOHS – ChemInfo

Legend to abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists
GHS- Globally Harmonised System for Classification and Labeling
IARC – International Agency for Research on Cancer
LD50- Median lethal dose; the dose causing 50 % lethality
LEV- Local exhaust ventilation
OSHA – United States, Occupational Safety and Health Administration
STEL – Short term exposure limit
TWA – Time weighted average
TLV - Threshold Limit Value
NTP – National Toxicology Program
WHMIS – Canada, Workplace Hazardous Materials Information System

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