

Safety Data Sheet

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according to the Hazard Communication Standard (HCS) 1910.1200 HazCom 2012
Date of issue: 11/09/2016 Revision date: 11/30/2016 Version: 1.0

SECTION 1: Identification

1.1 Identification

Product name : Super Rust Penetrant
Product code : 78

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Penetrant

1.3 Details of the supplier of the safety data sheet

Distributed by:
1st Ayd Corporation
1325 Gateway Drive
Elgin, IL 60124
Phone: 847-622-0001

1.4 Emergency telephone number

Emergency number : ChemTel 800-255-3924

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

GHS-US classification
Flam. Aerosol 2
Dissolved gas
Asp. Tox. 1

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Danger
Flammable aerosol. Contains gas under pressure, may explode if heated. May be fatal if swallowed and enters airways.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use. If swallowed, immediately call a poison center/doctor. Do NOT induce vomiting. Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local, regional, national and/or international regulation.

2.3 Other hazards

No additional information available

2.4 Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

according to the Hazard Communication Standard (CFR29 1910 1200) HazCom 2012

3.2. Mixtures

Name	Product identifier	%
Petroleum distillates, hydrocracked light	(CAS No) 64742-47-8	50 - 60
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	20 - 30
Distillates, petroleum, hydrocracked heavy naphthenic	(CAS No) 64742-82-5	20 - 30
Carbon dioxide	(CAS No) 124 38 9	1 - 4

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation
- If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact
- If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact
- Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Direct contact with the eyes is likely to be irritating.
- First-aid measures after ingestion
- IF SWALLOWED immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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

- Symptoms/injuries after inhalation
- May cause respiratory tract irritation.
- Symptoms/injuries after skin contact
- May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact
- May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion
- May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media
- Carbon dioxide, dry chemical, halons or foam.
- Unsuitable extinguishing media
- Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard
- Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon and oxides of nitrogen.
- Explosion hazard
- Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity
- No dangerous reaction known under conditions of normal use.

5.3. Advice for firefighters

Firefighting instructions

- DO NOT fight fire when fire reaches explosives. Evacuate area. Exercise caution when fighting any chemical fire.
- Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

General measures

- 6.1.1. For non-emergency personnel
- Evacuate unnecessary personnel.
- Emergency procedures

6.1.2. For emergency responders

- Protective equipment
- Equip cleanup crew with proper protection.

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Emergency procedures

Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Storage conditions

Storage area

- Do not spray on an open flame or other ignition source. Keep away from sources of ignition. No smoking. Use non-sparking tools. Use explosion proof equipment. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use.
- Laundry contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
- Proper grounding procedures to avoid static electricity should be followed.
- Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Keep in fireproof place.
- Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petroleum distillates, hydrotreated light (64742-47-8)

Not applicable

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Not applicable

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

Not applicable

Carbon dioxide (124-38-9)

ACGIH TWA (ppm)

5000 ppm

ACGIH

ACGIH STEL (ppm)

30000 ppm

OSHA

OSHA PEL TWA (mg/m³)

9000 mg/m³

OSHA

OSHA PEL TWA (ppm)

5000 ppm

8.2. Exposure controls

Appropriate engineering controls

- Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection

Eye protection

Skin and body protection

Respiratory protection

- Wear suitable protective clothing.
- In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Other information

- Maintain levels below Community environmental protection thresholds.
- Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

according to the Hazard Communication Standard (29 CFR 1910.1200), HazCom 2012

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Clear, Aerosol
Colour	: Orange
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 356 °F (180 °C)
Relative evaporation rate (butylacetate=1)	: > 14.1 9F (> 61 °C)
Flammability (solid, gas)	: No data available
Vapour pressure	: Flammable aerosol
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: 0.9
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Heat of Combustion	: 45.8 kJ/g
Flame Projection	: 0 inches
Flashback	: None

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Sources of ignition. Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to, oxides of carbon and oxides of nitrogen.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity

Not classified

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

PB Penetrating Catalyst

LD50 oral rat	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LC50 inhalation rat	> 5 mg/l/4h (Calculated Acute Toxicity Estimate)

Petroleum distillates, hydrotreated light (64742-47-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.2 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2 mg/kg
LC50 inhalation rat	> 590 mg/m ³ (Exposure time: 4 h)

Skin corrosion/irritation : Not classified.
 Serious eye damage/irritation : Not classified.
 Respiratory or skin sensitisation : Not classified.
 Germ cell mutagenicity : Not classified.

Carcinogenicity

: Not classified.

Reproductive toxicity

: Not classified.

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard

: May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

: May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: May cause skin irritation. Symptoms may include redness, drying, delating and cracking of the skin.

Symptoms/injuries after eye contact

: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

Other information

: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Petroleum distillates, hydrotreated light (64742-47-8)

LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> (flow-through))
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: <i>Lepomis macrochirus</i> [static])

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i>)

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)

12.2. Persistence and degradability

PB Penetrating Catalyst

Persistence and degradability : Not established.

according to the Hazard Communication Standard (CFR29 1910 1200) HazCom 2012

12.3.	Bioaccumulative potential	
	PB Penetrating Catalyst	
	Bioaccumulative potential	Not established
	Petroleum distillates, hydrotreated light (64742-47-8)	
	BCF fish 1	61 - 159
	Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
	BCF fish 1	61 - 159
	Partition coefficient, n-octanol/water	2.9 - 6.1
	Carbon dioxide (124-38-9)	
	BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming : No known effects from this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT : UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
Transport document description :
UN-No. (DOT) : UN1950
Proper Shipping Name (DOT) : Aerosols
Class (DOT) : flammable, (each not exceeding 1 L capacity)
Hazard labels (DOT) : 2.1 - Class 2.1 - Flammable gas, 49 CFR 173.115
2.1 - Flammable gas



Other information : No supplementary information available.
Special transport precautions : Do not handle until all safety precautions have been read and understood

SECTION 15: Regulatory information

15.1. US Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations
No additional information available

15.3. US State regulations
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm.

according to the Hazard Communication Standard (35CFR1910.1200) HazCom 2012

Naphthalene (91-20-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	5.8 µg/day
Carbon dioxide (124-38-9)				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

SECTION 16: Other information

Date of issue : 11/09/2016
 Revision date : 11/30/2016
 Other information : None

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