



SAFETY DATA SHEET

according to NOHSC:1015(2001) and NOHSC:2011(2003)

Rust Penetrant

Material number 04318039

Revision date: 25/4/2014

Version: 1

Language: en-AU

Date of print: 20/8/2014

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Classified as hazardous according to criteria of NOHSC.

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: Rust Penetrant
This safety data sheet pertains to the following products:
04318039AD
04318039GD

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

General use: Penetrant

Details of the supplier of the safety data sheet

Company name: Chrysler Australia Pty Ltd.
Street/POB-No.: 437 Plummer Street, Port Melbourne
Postal Code, city: AUS-3207 Melbourne
Dept. responsible for information:
After-Sales
Telephone: +86 21 6192 7899
E-mail: SDS@Chrysler.com

Emergency telephone number

Telephone: 0459 988 123 / +61 (0)3 8698 0255

2. Hazards identification

Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Avoid breathing mist/vapours. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may have a narcotic effect. Prolonged skin contact may degrease the skin and may produce dermatitis. May cause eye irritation with susceptible persons. Upon direct contact with eyes may cause burning, tearing, redness.

3. Composition / information on ingredients

Mixtures

Chemical characterization:
Oil mixture of the following listed substances with safe additions (aerosol)



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Hazardous ingredients:

| CAS No. | Designation | Content | Classification |
|----------------|---|---------|--|
| CAS 8008-20-6 | Kerosine (petroleum) | 10 % | Flammable liquid - Category 3. Skin irritation - Category 2. Specific target organ toxicity (single exposure) - Category 3. Aspiration hazard - Category 1. Aquatic toxicity - chronic - Category 2. |
| CAS 111-76-2 | 2-Butoxyethanol | 6 % | Acute toxicity - oral - Category 4. Acute toxicity - dermal - Category 4. Acute toxicity - inhalation - Category 4. Skin irritation - Category 2. Eye irritation - Category 2A. |
| CAS 74-98-6 | Propane | 6 % | Flammable gas - Category 1. Liquefied gas. |
| CAS 106-97-8 | n-Butane, pure | 6 % | Flammable gas - Category 1. Liquefied gas. |
| CAS 57855-77-3 | Calcium bis(dinonylnaphthalenesulphonate) | 1 % | Skin irritation - Category 2. Eye irritation - Category 2A. |

Additional information: Contains: Mineral oil, < 3% dimethylsulfoxide (DMSO) extract, according to IP 346.

4. First aid measures

- In case of inhalation: Move victim to fresh air, provide oxygen as needed. Put victim at rest and keep warm. Seek medical treatment in case of troubles. If breathing is irregular or stopped, administer artificial respiration. Immediately get medical attention.
- In case of skin contact: After contact with skin, wash immediately with soap and plenty of water. Then cream your skin. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet



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Special hazards arising from the substance or mixture

Extremely flammable aerosol.

Vapours can form explosive mixtures with air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Hydrocarbons, traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide

Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Do not expose to high temperature. Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to knock down vapours. Do not breathe fumes.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Avoid contact with the substance. Do not breathe vapour/aerosol. Use appropriate respiratory protection. Provide adequate ventilation.

In case of handling larger quantities: Wear protective equipment. Keep away from unprotected people.

Environmental precautions

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. If necessary notify appropriate authorities.

Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Beware of reignition.

Additional information: Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges. Use only non-sparking tools.

7. Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Wear protective equipment.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

When using do not eat, drink or smoke. Wash hands and face thoroughly after handling.



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Precautions against fire and explosion:

- Usual measures for fire prevention.
- Keep away from sources of ignition. - No smoking.
- With air, vapours form potentially explosive mixtures, which are heavier than air.
- Take precautionary measures against static discharges.
- Use only explosion-protected equipment/instruments. Do not weld.

Storage

Requirements for storerooms and containers:

- Restrict access to stockrooms.
- Keep container tightly closed and in a well-ventilated place.
- Keep container dry. Keep only in the original container.
- Protect from heat and direct sunlight.
- Store containers in upright position.
- Storage temperature: <49 °C

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Further details: Keep out of reach of children.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|----------|-----------------|---------------------|--|
| 111-76-2 | Rust Penetrant | Australia: OEL-TWA | 5 mg/m ³ Oil fog |
| | 2-Butoxyethanol | Australia: OEL-STEL | 242 mg/m ³ ; 50 ppm (May be absorbed through the skin.) |
| | | Australia: OEL-TWA | 96.9 mg/m ³ ; 20 ppm (May be absorbed through the skin.) |
| 106-97-8 | n-Butane, pure | Australia: OEL-TWA | 1900 mg/m ³ ; 800 ppm |

Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

- Respiratory protection: If vapours form, use respiratory protection.
Use filter type A (= against vapours of organic substances) according to AS/NZS 1716.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection: Protective gloves according to AS/NZS 2161.
Glove material: PVA (Polyvinyl alcohol), neoprene, fluoro rubber
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Recommended: Tightly sealed eye protectors according to AS/NZS 1337.
- Body protection: Recommended: Wear suitable protective clothing.



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General protection and hygiene measures:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing. Do not breathe vapour/aerosol. Have eye wash bottle or eye rinse ready at work place. When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|---|
| Appearance: | Physical state: Aerosol Colour: clear |
| Odour: | solvent-like |
| Odour threshold: | no data available |
| pH value: | no data available |
| Melting point/freezing point: | no data available |
| Initial boiling point and boiling range: | -17.8 - 300 °C |
| Flash point/flash point range: | <= 17.8 °C |
| Evaporation rate: | no data available |
| Flammability: | Extremely flammable aerosol. |
| Explosive properties: | no data available |
| Explosion limits: | LEL (Lower Explosion Limit): 0.70 Vol-% UEL (Upper Explosive Limit): 10.60 Vol-% |
| Vapour pressure: | no data available |
| Vapour density: | >= 1 |
| Density: | 0.83 g/cm ³ |
| Solubility: | no data available |
| Partition coefficient: n-octanol/water: | no data available |
| Auto-ignition temperature: | no data available |
| Thermal decomposition: | no data available |

Additional information

| | |
|-------------------------|-------------------|
| Viscosity | - |
| Additional information: | no data available |

10. Stability and reactivity

| | |
|-------------------------------------|--|
| Reactivity: | Extremely flammable aerosol. Vapours can form explosive mixtures with air. |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | Do not expose to high temperature. Danger of bursting and explosion. Hazardous polymerisation: will not occur. |
| Conditions to avoid: | Keep away from heat sources, sparks and open flames. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. |
| Incompatible materials: | no data available |



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Hazardous decomposition products:

In case of fire may be liberated: Hydrocarbons, traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide

Thermal decomposition: no data available

11. Toxicological information

Information on toxicological effects

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Skin irritation - Category 2 = Causes skin irritation.
- Eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

Symptoms

In case of inhalation:
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
In case of high vapour concentrations: Central nervous system depression.
Other symptoms: Ataxia (coordination impairment), headache, drowsiness, nausea, vomiting.
May cause damage to liver through prolonged or repeated exposure. May cause damage to urinary bladder through prolonged or repeated exposure. May cause damage to blood forming organs.
After contact with skin:
Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).
Other symptoms: Reddening, itching, erythema (weak)
After eye contact:
May cause eye irritation with susceptible persons. Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Toxicity

Further details: no data available

Persistence and degradability

Further details: no data available



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Mobility in soil

no data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Do not open with force or incinerate, even when empty.
Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Empty carefully and completely, if possible. Handle empty containers with care.
Incineration may cause explosion. Dispose of waste according to applicable legislation.

14. Transport information

Land transport (ADR/RID)

Warning board: ADR: UN number 1950
RID: Kemmler-number 23, UN number 1950

Product designation: UN 1950, AEROSOLS

ADR/RID: Class 2, Code: 5F

Hazard label: 2.1

Special provisions: 190 327 344 625

Limited quantities: 1 L

EQ: E0

Contaminated packaging - Instructions: P207 LP02

Contaminated packaging - Special provisions: PP87 RR6 L2

Special provisions for packing together: MP9

Tunnel restriction code: D





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Sea transport (IMDG)

UN number: 1950
Proper shipping name: UN 1950, AEROSOLS
IMDG: Class 2, Subrisk -, see SP63
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: See SP277
EQ: E0
Contaminated packaging - Instructions: P207, LP02
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and segregation: For AEROSOLS with a maximum capacity of 1 l: Category A. Segregation as for class 9 but "Away from" sources of heat and "separated from" class 1 except division 1.4. For AEROSOLS with a capacity above 1 l: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters and away from sources of heat. Segregation as for the appropriate sub-division of class 2.
Properties and observations: -
Marine pollutant: No
Segregation group: none

Air transport (IATA)

UN/ID number: 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
ICAO/IATA: Class 2.1
Hazard: Flamm. gas
EQ: E0
Passenger Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning: A145 A167 A802
ERG: 10L

15. Regulatory information

National regulations - Australia

Hazchem-Code: -

16. Other information

Text for labelling: Contains 10% Kerosine (petroleum) and 6% 2-Butoxyethanol.
Date of first version: 9/4/2014

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.