



SAFETY DATA SHEET

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

Antifreeze-Concentrate

Material number 68048953AB

Revision date: 13/2/2014

Version: 2

Language: en-AU

Date of print: 19/8/2014

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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: Antifreeze-Concentrate
This safety data sheet pertains to the following products:
68048953AB, 68048953GB

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

General use: for the automotive industry.
Reserved for industrial and professional use.

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

3. Composition / information on ingredients

Mixtures

Chemical characterization:
Aqueous preparation

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 107-21-1	Ethylene glycol	60 - 99 %	Acute toxicity - oral - Category 4.
CAS 111-46-6	Diethylene glycol	1 - 5 %	Acute toxicity - oral - Category 4. Specific target organ toxicity (repeated exposure) - Category 2.
CAS 1303-96-4	Disodium tetraborate x 10 H2O	1 - 5 %	Toxic to reproduction - Category 1B.

4. First aid measures

General information: Immediately remove any contaminated clothing, shoes or stockings.
First aider: Pay attention to self-protection!

In case of inhalation: Move victim to fresh air. If you feel unwell, seek medical advice.



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In case of skin contact: After contact with skin, wash immediately with soap and plenty of water. 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 eye irritation consult an ophthalmologist. Remove contact lenses.

After swallowing: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Most important symptoms and effects, both acute and delayed

Higher doses may lead to a narcotic effect.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam, dry extinguishing agent, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

High power water jet

Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Do not inhale explosion and combustion gases.

Additional information: Hazchem-Code: -

Cool endangered containers with water jetspray.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep away from unprotected people. Provide adequate ventilation. Avoid contact with skin and eyes. Use personal protective clothing.

Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions

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

In case of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Dispose according to legislation.



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7. Handling and storage

Precautions for safe handling

Advices on safe handling: Do not breathe vapour/aerosol/mist. Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin and eyes. Wear personal protection equipment.
Handle in accordance with good industrial hygiene and safety practice.

Precautions against fire and explosion:

Keep away from sources of ignition. - No smoking.
Vapours form explosive mixtures with air.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Keep only in the original container.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with oxidizing agents.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
107-21-1	Ethylene glycol	Australia: OEL-STEL	104 mg/m ³ ; 40 ppm vapour
		Australia: OEL-TWA	10 mg/m ³ particles
		Australia: OEL-TWA	52 mg/m ³ ; 20 ppm vapour
111-46-6	Diethylene glycol	Australia: OEL-TWA	100 mg/m ³ ; 23 ppm
1303-96-4	Disodium tetraborate x 10 H ₂ O	Australia: OEL-TWA	5 mg/m ³

Exposure controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn according to AS/NZS 1715 and AS/NZS 1716 whenever the WEL levels have been exceeded.
Use filter type A (= against vapours of organic substances) according to AS/NZS 1716.

Hand protection: Protective gloves according to AS/NZS 2161.
Glove material: Butyl caoutchouc (butyl rubber). - Layer thickness: 0,70 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Wear eye glasses with side protection according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapour/aerosol.
Avoid contact with skin and eyes.
When using do not eat or drink.
Wash hands before breaks and after work.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state: liquid Colour: varying, depends on colouring
Odour:	weak
Odour threshold:	no data available
pH value:	at 20 °C: 8.4
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	108 °C
Flash point/flash point range:	no data available
Evaporation rate:	no data available
Flammability:	no data available
Explosive properties:	no data available
Explosion limits:	no data available no data available
Vapour pressure:	no data available
Vapour density:	no data available
Density:	1.08 g/mL
Water solubility:	miscible
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available

Additional information

Viscosity	-
Explosive properties:	Vapours form explosive mixtures with air.

10. Stability and reactivity

Reactivity:	Reacts with: Acids, strong oxidizing agents.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions with proper and specified storage and handling.
Conditions to avoid:	no data available
Incompatible materials:	Acids, strong oxidizing agents.
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide.
Thermal decomposition:	no data available



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11. Toxicological information

Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Acute toxicity - oral - Category 4 = Harmful if swallowed.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Lack of data.
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: Higher doses may lead to a narcotic effect.

12. Ecological information

Toxicity

Further details: no data available

Persistence and degradability

Further details: no data available

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: Send to a hazardous waste incinerator facility according to legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Contaminated packages must be completely emptied and can be re-used following proper cleaning.



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14. Transport information

Land transport (ADR/RID)

Product designation: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: No

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Australia

Hazchem-Code: -

16. Other information

Text for labelling: Contains Ethylene glycol

Reason of change: Changes in section 1: Article number

Date of first version: 8/3/2013

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.