

Safety Data Sheet

1. Identification of the substance and of the supplier

1.1 Product identifiers

Product name COOLANT READY TO USE (33:67) RED

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

Identified uses : Coolant

1.3 Details of the supplier of the safety data sheet

Company : PSP Specialties Co., Ltd
 1 Boromrachachonanee Road, Arunamrin Bangkoknoi Bangkok 10700
Telephone : 662 4336012 – 15
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2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]



Signal Word:
Warning

Hazard Statement:
H302 Harmful if swallowed.

Precautionary Statements (Prevention):
P270 Do no eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 IF SWALLOWED: rinse mouth.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

Hazard symbol(s)
Xn Harmful.

R-phrases(s)
R22 Harmful if swallowed.

S-phrases(s)
S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes.
S46 If swallowed, seek medical advice immediately and show this container or label.

Hazard determining component(s) for labelling: ETHANE-1,2-DIOL/ETHYLENEGLYCOL

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]
Acute toxicity: Cat. 4 (oral)

According to Directive 67/548/EEC or 1999/45/EC
Possible Hazards:
Harmful if swallowed.

Other hazards

Assessment PBT / vPvB:

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria..

3. Composition/Information on ingredients

Chemical nature

ethyleneglycol
inhibitors

This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH') in a concentration above 0.1% w/w: disodium tetraborate pentahydrate; borax pentahydrate

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

ethyleneglycol

Content (W/W): > 90 %	Acute tox.: Cat. 4 (oral)
CAS Number: 107-21-1	STOT rep.: Cat. 2
EC-Number: 203-473-3	H302, H373
REACH registration number: 01-2119456816-28	
INDEX-Number: 603-027-00-1	

2-ethylhexanoic acid, sodium salt

Content (W/W): > 2 % - < 3 %	Repro.: Cat. 2 (unborn child)
CAS Number: 19766-89-3	H361d
EC-Number: 243-283-8	

disodium tetraborate pentahydrate; borax pentahydrate

Content (W/W): >= 0.3 % - <= 1 %	Eye dam./irr.: Cat. 1
CAS Number: 12179-04-3	Repro.: Cat. 1B (fertility)
INDEX-Number: 005-011-02-9	Repro.: Cat. 1B (unborn child)
	H318, H360FD

Hazardous ingredients

according to Directive 1999/45/EC

ethyleneglycol

Content (W/W): > 90 %
CAS Number: 107-21-1
EC-Number: 203-473-3
REACH registration number: 01-2119456816-28

INDEX-Number: 603-027-00-1

Hazard symbol(s):

R-phrases: 22

2-ethylhexanoic acid, sodium salt

Content (W/W): $\geq 2\%$ - $\leq 3\%$

CAS Number: 19766-89-3

EC-Number: 243-283-8

Hazard symbol(s): Xn

R-phrases: 63

disodium tetraborate pentahydrate; borax pentahydrate

Content (W/W): $\geq 0.3\%$ - $\leq 1\%$

CAS Number: 12179-04-3

INDEX-Number: 005-011-02-9

Hazard symbol(s): Xi

R-phrases: 41

Category 2: Substances which should be regarded as if they cause developmental toxicity to humans or substances

which should be regarded as if they impair fertility in humans

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First aid measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire fighting measures

Suitable extinguishing media : water spray, dry powder, alcohol-resistant foam.

Special protective equipment :	Wear a self-contained breathing apparatus.
Further information:	The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

High risk of slipping due to leakage/spillage of product.

Personal precautions :	Use personal protective clothing.
Environmental precautions :	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Method for cleaning up :	For large amounts: Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.
Reference to other sections :	Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling :	Ensure thorough ventilation of stores and work areas. Shut containers immediately after taking product because product takes up the humidity of air.
Conditions for safe storage, including any incompatibilities :	Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Storage in galvanized containers is not recommended.
Specific end use(s) :	For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure controls/personal protection

Control parameters

Components with workplace control parameters
107-21-1: ethyleneglycol

Exposure controls

Respiratory protection :	Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)
Hand protection :	Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness Manufacturer's directions for use should be observed because of great diversity of types.
Eye protection :	Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Do not inhale gases/vapours/aerosols. Handle in accordance with good industrial hygiene and safety

practice. Wearing of closed work clothing is recommended.

9. Physical and Chemical properties

Form :	liquid
Color :	Red
Odour :	Product specific
pH value :	8.2-8.6
Density @20C :	1.0509

10. Stability and Reactivity

Corrosion to metals :	No corrosive effect on metal.
Chemical stability :	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions :	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid :	No conditions to avoid anticipated.
Incompatible materials :	Substances to avoid: strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity :	Experimental/calculated data: LD50 rat (oral): > 2,000 mg/kg LD50 rabbit (dermal): > 2,000 mg/kg
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Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Experiences in humans

Information on: Ethane-1,2-diol

Experimental/calculated data: mean lethal dose: 1.2 - 1.5 g/kg , oral, Adults consciousness is affected, kidney damage, Damage to the central nervous system: The symptoms/diagnosis/findings mentioned may result with smaller doses.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Mobility :	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.
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Persistence/degradability :	> 70 % DOC reduction (28 d) (OECD 301 A (new version)) Readily biodegradable
Bio-accumulation :	Accumulation in organisms is not to be expected.
Results of PBT and vPvB assessment :	According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

13. Disposal considerations

Waste treatment methods :	Must be disposed of or incinerated in accordance with local regulations.
Contaminated packaging :	Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR	Not classified as a dangerous good under transport regulations
RID	Not classified as a dangerous good under transport regulations

Inland waterway transport

AND	Not classified as a dangerous good under transport regulations
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Sea transport

IMDG	Not classified as a dangerous good under transport regulations
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Air transport

IATA/ICAO	Not classified as a dangerous good under transport regulations
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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 Chemical Safety Assessment
 Chemical Safety Assessment not yet performed due to registration timelines

16. Other Information

Full text of hazard symbols, hazard statements and R-phrases if mentioned as hazardous components in chapter 3:

Xn	Harmful.
Xi	Irritant.
22	Harmful if swallowed.
63	Possible risk of harm to the unborn child.
41	Risk of serious damage to eyes.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H361d	Suspected of damaging the unborn child.
H318	Causes serious eye damage.

H360FD

May damage fertility. May damage the unborn child.

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Prepared by: PSP SPECIALTIES CO., LTD.

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