

SAFETY DATA SHEET

Date of issue : 2012-01-26.

Version : 1.01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : Coolant VCS Ready Mixed

Product no. : 21485014

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

Product use : Coolant and antifreeze.

1.3 Details of the supplier of the safety data sheet

Supplier : AB Volvo Penta Telephone no.: : +46-31-66 67 50

SE 405 08 Gothenburg

Sweden

E-mail address : sds@volvo.com

1.4 Emergency telephone number

Emergency phone : +46-31-66 67 50 (during office

hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD]

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R22

Human health hazards: Harmful if swallowed.

See section 11 for toxicological information and section 12 for ecotoxicological information.

See Section 16 for the full text of the R phrases or H statements declared above.

2.2 Label elements

Hazard symbol or symbols :



Indication of danger : Harmful

Risk phrases : R22- Harmful if swallowed

Safety phrases : S2- Keep out of the reach of children.

S13- Keep away from food, drink and animal feeding stuffs.

S24/25- Avoid contact with skin and eyes.

S46- If swallowed, seek medical advice immediately and show this container or label.

Hazardous ingredients

2.3 Other hazards

: ethanediol

Other hazards which do not : Not available.

result in classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

			<u>Classification</u>		
Ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
ethanediol	EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	30 - 60	Xn; R22	Acute Tox. 4, H302 STOT RE 2, H3730	[1] [2]
Hexanoic acid, 2-ethyl-, sodium salt	EC: 243-283-8 CAS: 19766-89-3	1 - 5	Repr. Cat. 3; R63	Repr. 2, H361d	[1]

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Coolant VCS Ready Mixed			
;	. COMPOSITION/INFORMATION ON	INGREDIENTS	
		See Section 16 for the full text of the R-phrases declared above. See Section 16 full text of the statements de above.	н

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation : If inhaled, remove to fresh air.

Skin contact : Wash with soap and water. Get medical attention if symptoms occur.

: In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if Eye contact

symptoms occur.

: Call medical doctor or poison control centre immediately. (Coolant. Contains ethylene glycol) Ingestion

Wash out mouth with water. If affected person is conscious, give plenty of water to drink. Do not

induce vomiting unless directed to do so by medical personnel.

Protection of first-aiders : Not applicable

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system. Long-term exposure may cause headache, nausea or

weakness.

Skin contact : Defatting to the skin. Eye contact : Slightly irritating to the eyes.

Ingestion : Harmful if swallowed. May be fatal if swallowed. Exposure can cause stomach pains, vomiting and

diarrhoea. loss of consciousness or coma

Over-exposure signs/symptoms

: No specific data. Inhalation Skin contact : No specific data

Eye contact : May cause eye irritation.

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatments : No specific treatment.

See Section 11 for more detailed information on health effects and symptoms.

FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable : Recommended:, alcohol-resistant foam, CO₂, powders

Not suitable : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

: Decomposition products may include the following materials:

Hvdrocarbon. carbon oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Spill

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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ACCIDENTAL RELEASE MEASURES

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

: Avoid contact with eyes, skin and clothing. Avoid exposure during pregnancy. Wash thoroughly after handling. Avoid contact of spilt material and runoff with soil and surface waterways.

Advice on general occupational hygiene : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing

before reusing.

7.2 Conditions for safe storage, including any incompatibilities

: Keep container tightly closed in a cool, well- ventilated place. Do not store in unlabelled

7.3 Specific end use(s)

Recommendations

: Coolant and antifreeze.

Industrial sector specific

solutions

: Not available.

EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

8.1 Control parameters

Occupational exposure limits

Occupational exposure limits
NAOSH (Ireland, 8/2007). Absorbed through skin.
OELV-8hr: 10 mg/m³ 8 hour(s). Form: particulate
OELV-8hr: 20 ppm 8 hour(s). Form: vapour
OELV-8hr: 52 mg/m³ 8 hour(s). Form: vapour
OELV-15min: 40 ppm 15 minute(s). Form: vapour
NAOSH (Ireland, 8/2007). Absorbed through skin. Notes:
OELV-15min: 104 mg/m³ 15 minute(s). Form: vapour

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
ethane-1,2-diol	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
	DNEL DNEL	Long term Inhalation Long term Dermal	35 mg/m³ 53 mg/kg bw/dav	Workers Man via the environment	Local Systemic
	DNEL	Long term Inhalation	7 mg/m³	Man via the environment	Local

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If workers are exposed to concentrations

above the exposure limit, they must use appropriate, certified respirators.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protective equipment

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Eye protection

: For prolonged or repeated handling, use gloves : neoprene, nitrile, natural rubber (latex), or

PVC.

Environmental exposure

: Use safety eyewear designed to protect against splash of liquids. : Do not allow to enter drains or watercourses.

controls

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour : Yellow. Odour : Slight : Not available. **Odour threshold** : Not available. Melting point/freezing point: Not available.

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PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point and

: >175°C (>347°F)

boiling range

Flash point : Closed cup: >115°C (>239°F)

Evaporation rate : Not available. Flammability (solid, gas) : Not available. **Burning time** : Not applicable. **Burning rate** : Not applicable. Upper/lower flammability or : Not available.

explosive limits

: Not available. Vapour pressure Vapour density : Not available.

Relative density : 1,04

: 1,04 g/cm³ [20°C (68°F)] Density

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature Decomposition

: Not available.

temperature

: Not available.

Viscosity : Not available. **Explosive properties** : Not available Oxidising properties : Not available.

9.2 Other information No additional information.

10. STABILITY AND REACTIVITY

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : Stable under recommended storage and handling conditions (see section 7). 10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

reactions 10.4 Conditions to avoid

: No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

acids

oxidizing materials

10.6 Hazardous decomposition products : Decomposition products may include the following materials:

Hydrocarbon. carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system. Long-term exposure may cause headache, nausea or

weakness

Skin contact : Defatting to the skin. Eye contact : Slightly irritating to the eyes.

: Harmful if swallowed. May be fatal if swallowed. Exposure can cause stomach pains, vomiting and Ingestion

diarrhoea. loss of consciousness or coma

Over-exposure signs/symptoms

: No specific data. Inhalation Skin contact : No specific data

Eye contact : May cause eye irritation.

Ingestion : No specific data.

Relevant information for the mixture and/or the ingredients is presented below.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanediol	LDLo Oral	Human	786 mg/kg	-

Harmful or fatal if swallowed. Ingestion: kidney abnormalities Contains material which can cause birth defects

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexanoic acid, 2-ethyl-, sodium salt	Positive	-	-	-

Potential chronic health effects

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11. TOXICOLOGICAL INFORMATION

General : Repeated or prolonged contact with the preparation may cause removal of natural fat from the

skin, resulting in non-allergic contact dermatitis and absorption through the skin.

Developmental effects: Contains material which can cause birth defects.

Other information : Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Environmental effects

: Ecotoxicological data on the substances included in this product show that the product is not

classified as harmful to the environment.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Water-soluble liquid

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Methods of disposal

: Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Hazardous waste

This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according

to all national and local applicable regulations.

European waste catalogue (EWC)

Waste code	Waste designation	
16 01 14*	antifreeze fluids containing dangerous substances	

Packaging

Methods of disposal

: Waste packaging should be recycled. Incineration or landfill should only be considered when

recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with

soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

: Not available.

Code

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15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Other EU regulations

Product use

: Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- Consumer applications, Industrial applications.

16. OTHER INFORMATION

Europe

Full text of abbreviated R

phrases

: R63- Possible risk of harm to the unborn child.

R22- Harmful if swallowed

Full text of classifications [DSD/DPD]

: Repr. Cat.3 - Toxic to reproduction Category 3

Xn - Harmful

Full text of abbreviated H

statements

: H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373o May cause damage to organs through prolonged or repeated exposure if swallowed.

Full text of classifications

[CLP/GHS]

: Acute Tox. 4, H302

ACUTE TOXICITY: ORAL - Category 4

Repr. 2, H361d TOXIC TO REPRODUCTION [Unborn child] - Category 2 STOT RE 2, H3730

SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE): ORAL [kidneys] - Category 2

History

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revision

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Conforms to 1907/2006/EC, Article 31 - Ireland

Indicates information that has changed from previously issued version.