

Date of issue : 6/21/2021

Version : 4

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking****Product identifier****Product name** : Coolant VCS ready mixed mix 40/60**Product no.** : 22567335**Product type** : Liquid.**Relevant identified uses of the substance or mixture and uses advised against****Product use** : Coolant and antifreeze.

**Supplier's details** : Volvo Bus Australia  
120 Hume Highway  
Chullora NSW 2190  
Australia

Volvo Group Australia  
20 Westgate Street  
Wacol QLD 4076

**Telephone no.** : +61-28713 8200 +61 7 3718 3500**Emergency phone** : Poison Information Centre 131126

**E-mail address** : sds@volvo.com  
[websds.volvo.com](http://websds.volvo.com)

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Acute Tox. 4, H302

STOT RE 2, H373 (kidneys) (oral)

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

**Hazard pictograms** :**Signal word** : Warning

**Hazard statements** : Harmful if swallowed.  
May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys)

**Precautionary statements****General** : Not applicable.

**Prevention** : Keep out of reach of children. If medical advice is needed, have product container or label at hand.  
Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Read label before use.

**Response** : SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

**Storage** : Not applicable.**Disposal** : Not applicable.**Hazardous ingredients** : ethanediol**Supplemental label elements** :

**Other hazards which do not result in classification** : Not available.

## SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

### CAS number/other identifiers

Product code : 22567335

Ingredient name	Identifiers	%	Classification	Type
Ethenediol	107-21-1	30 - 60	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	[1] [2]
Hexanoic acid, 2-ethyl-, sodium salt	19766-89-3	1 - <3	Repr. 2, H361fd (Fertility and Unborn child)	[1]
Aversive agent	-	<100ppm	Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 3, H412	[A]

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.

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

## SECTION 4: First aid measures

### Description of first aid measures

- Inhalation** : If inhaled, remove to fresh air. Get medical attention if symptoms occur.
- Skin contact** : Wash contaminated skin with soap and water. Get medical attention.
- Eye contact** : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If affected person is conscious, give plenty of water to drink. (Coolant. Contains ethylene glycol) Do not induce vomiting unless directed to do so by medical personnel.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Inhalation** : This product is not likely to volatilise rapidly into the air because of its low vapour pressure.
- Skin contact** : Defatting to the skin.
- Eye contact** : May cause slight transient irritation.
- Ingestion** : Harmful if swallowed. Risk of intoxication.

### Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : May cause slight transient irritation.
- Skin** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Eyes** : May cause slight transient irritation. (redness)
- Ingestion** : Exposure can cause stomach pains, vomiting and diarrhoea.

### Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : Antidote information: Ethanol
- Notes to physician** : Treat symptomatically.
- Protection of first-aiders** : Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### Extinguishing media

- Suitable** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders
- Not suitable** : Do not use water jet.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
metal oxide/oxides  
carbon oxides
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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".
- 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).

### Methods and material for containment and cleaning up

- Spill** : Stop leak if without risk. 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.

- 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.

## SECTION 7: Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- 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 reuse.
- Conditions for safe storage, including any incompatibilities** : Do not store in unlabelled containers. Keep container tightly closed. Keep container in a cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Ingredient name

1,2-ethanediol

##### Occupational exposure limits

**Safe Work Australia (Australia, 1/2014). Absorbed through skin.**

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Particulate

STEL: 104 mg/m<sup>3</sup> 15 minutes. Form: Vapour

TWA: 52 mg/m<sup>3</sup> 8 hours. Form: Vapour

TWA: 20 ppm 8 hours. Form: Vapour

STEL: 40 ppm 15 minutes. Form: Vapour

- Appropriate engineering controls** : Use only with 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.

- Environmental exposure controls** : Do not allow to enter drains or watercourses.

### 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** : Provide adequate ventilation.
- Hand protection** : For prolonged or repeated handling, use gloves : nitrile rubber, butyl rubber, neoprene rubber, EN374
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

## SECTION 9: Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Yellow.
- Odour** : Slight
- Odour threshold** : Not available.
- pH** : 8.6
- Melting point** : -25°C (-13°F)

## SECTION 9: Physical and chemical properties

Pour point	: °C
Boiling point	: 109°C (228.2°F)
Flash point	: Not applicable.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapour pressure	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
Vapour density	: Not available.
Density	: 1.056 g/cm³ [20°C]
Relative density	: 1
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Molecular weight	: Not applicable.
SADT	: Not available.

## SECTION 10: Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: <input checked="" type="checkbox"/> Reactive or incompatible with the following materials: strong acids Strong oxidising materials nitrates peroxides chlorates
Hazardous decomposition products	: <input checked="" type="checkbox"/> Elevated temperature: Aldehydes, ketones

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Potential acute health effects

Inhalation	: This product is not likely to volatilise rapidly into the air because of its low vapour pressure.
Skin contact	: Defatting to the skin.
Eye contact	: May cause slight transient irritation.
Ingestion	: Harmful if swallowed. Risk of intoxication.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: May cause slight transient irritation.
Skin	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Eyes	: May cause slight transient irritation. ( redness )
Ingestion	: Exposure can cause stomach pains, vomiting and diarrhoea.

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanediol	Harmful if swallowed. No applicable toxicity data	-	-	-

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

#### Irritation/Corrosion

#### Conclusion/Summary

**Skin** : Not available.

## SECTION 11: Toxicological information

**Eyes** : Not available.

**Respiratory** : Not available.

### Sensitisation

#### Conclusion/Summary

**Skin** : Not available.

**Respiratory** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Result	Species	Dose	Exposure
Hexanoic acid, 2-ethyl-, sodium salt	-	-	Positive		-	Oral	-

**Conclusion/Summary** : Not available.

### Teratogenicity

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

**Conclusion/Summary** : Contains material which can cause birth defects.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethanediol	Category 2	Oral	kidneys

### Potential chronic health effects

**Conclusion/Summary** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure if swallowed.

**Mutagenicity** : Not applicable

**Other information** : Adverse symptoms include the following: kidney abnormalities

## SECTION 12: Ecological information

### 12.1 Toxicity

**Ecotoxicity** : Readily biodegradable

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

### 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not applicable.			

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Not applicable.			

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Water-soluble liquid

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

P: Not available. B: Not available. T: Not available.

**vPvB** : Not applicable.

vP: Not available. vB: Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

**Disposal methods** : Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### 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 hazardous 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.

## SECTION 14: Transport information

	ADG	ADR/RID	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>		-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

#### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

#### Control of Scheduled Carcinogenic Substances

Not available.

No listed substance

**Australia inventory (AICS)** : This product is in compliance with AICS inventory.

## SECTION 16: Other information

#### History

**Date of issue/Date of revision** : 6/21/2021

**Version** : 4

#### Notice to reader

Conforms to WHS Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals

Indicates information that has changed from previously issued version.