

# **SAFETY DATA SHEET**

# Concentrated coolant 31439821

Date of issue : 6/2/2015.

Version : 1

# **Section 1. Identification**

**Product identifier** 

Product name : Concentrated coolant

Product no. : 31439821

Product type : Liquid.

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

Product use : Coolant and antifreeze.

Supplier's details : Volvo Cars of North America, LLC

1 Volvo Drive P.O. Box 914 Rockleigh, NJ 07647

**Telephone no.** : (201) 768-7300

### In case of emergency

#### 1-800-467-8583

NOTE: Use the 24-Hour Emergency Telephone Numbers only in the event of a chemical emergency involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Volvo Cars of North America, LLC at (201) 768-7300 (U.S.) or (416) 493-3700 (Canada) for assistance.

E-mail address : sds@volvo.com

websds.volvo.com

### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

Classification of the substance or mixture

: ACUTE TOXICITY (oral) - Category 4

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) (oral) - Category 2

GHS label elements
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 : Keep out of reach of children. If medical advice is needed, have product container or label at

hand

**Prevention**: Wash hands thoroughly after handling.

Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Other hazards which do not

result in classification

: Not available.

Supplemental label elements: None known.

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**CAS** number/other identifiers

Product code : 31439821

 Ingredient name
 %
 CAS number

 1,2-ethanediol
 60 - 100
 107-21-1

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

following exposure or if feeling unwell.

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.

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

#### Potential acute health effects

Inhalation : This product is not likely to volatilize rapidly into the air because of its low vapor 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 diarrhea. 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. Fire-fighting measures

### **Extinguishing media**

 $\begin{tabular}{lll} \textbf{Suitable} & : & Recommended:, alcohol-resistant foam, $CO_2$, powders \\ \end{tabular}$ 

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 vapor 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 spilled 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 materials for containment and cleaning up

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### Section 6. Accidental release measures

**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 vapor 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. 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 unlabeled 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 nameOccupational exposure limits1,2-ethanediolOSHA PEL 1989 (United States, 3/1989).

CEIL: 50 ppm CEIL: 125 mg/m³ Form:

ACGIH TLV (United States, 4/2014). C: 100 mg/m³ Form: Aerosol

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 : Chemical-resistant gloves.Eye protection : Wear eye protection. Recommended: safety glasses with side-shields

# Section 9. Physical and chemical properties

### Appearance

Physical state : Liquid.
Color : Green. [Light]
Odor : Not available.
Odor threshold : Not available.

**pH** : 8.5

Melting point: <-10°C (<14°F)</th>Pour point: Not available.Boiling point: >160°C (>320°F)

Flash point : Closed cup: >100°C (>212°F) [Pensky-Martens.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

(flammable) limits

Vapor pressure : Not available.

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

Vapor density : Not available.

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# Section 9. Physical and chemical properties

: 1.1259 g/cm3 [20°C] Density Relative density : Not available. Partition coefficient: n-: Not available.

octanol/water

**Auto-ignition temperature** : >200°C (>392°F) **Decomposition temperature** : Not available

Viscosity : Kinematic (room temperature): 0.2 to 0.3 cm<sup>2</sup>/s (20 to 30 cSt)

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.

: Stable under recommended storage and handling conditions (see Section 7). Chemical stability

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data

Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

# Section 11. Toxicological information

### Information on toxicological effects

### Potential acute health effects

Inhalation : This product is not likely to volatilize rapidly into the air because of its low vapor pressure.

Skin contact : Defatting to the skin.

Eve contact : May cause slight transient irritation. Ingestion : Harmful if swallowed. Risk of intoxication.

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

: May cause slight transient irritation. Inhalation

Skin : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

: May cause slight transient irritation. ( redness ) Eyes

Ingestion : Exposure can cause stomach pains, vomiting and diarrhea.

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,2-ethanediol	Harmful if swallowed. No applicable toxicity data	-	-	-

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
1,2-ethanediol	Category 2	Oral	kidneys

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

Mutagenicity : Not applicable Other information : Not available.

### Section 12. Ecological information

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

classified as harmful to the environment.

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

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Coolant	Acute EC50 >100 mg/l Acute EC50 >100 mg/l Fresh water	Aquatic plants Daphnia - Daphnia magna	72 hours 48 hours
	Acute LC50 >100 mg/l Fresh water	Fish - Leuciscus idus	96 hours

#### Persistence/degradability

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# Section 12. Ecological information

Product/ingredient name	Test	Result	Dose		Inoculum	
Coolant	-	70 % - Readily - 2	-			
Product/ingredient name	Aquatic half-life	Pho	Photolysis		Biodegradability	
Coolant	-	-			Readily	

**Bioaccumulative potential** 

Product/ingredient name	LogPow	BCF	Potential
Not available.			

Mobility in soil

Soil/water partition coefficient (Koc)

: 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.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	ADR/RID	IMDG	IATA
UN number	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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 : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations

: This product is in compliance with TSCA inventory.

Clean Air Act Section 602

: Not listed

Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances

**SARA 302/304** 

### Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
No products were found.						

### **SARA 311/312**

Classification : Immediate (acute) health hazard Delayed (chronic) health hazard

### Composition/information on ingredients

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
1,2-ethanediol	60 - 100	No.	No.	No.	Yes.	Yes.

### **SARA 313**

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# Section 15. Regulatory information

Form R - Reporting : 1,2-ethanediol

requirements

Supplier notification : 1,2-ethanediol

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

Massachusetts: ApplicableNew York: ApplicableNew Jersey: ApplicablePennsylvania: Applicable

### Section 16. Other information

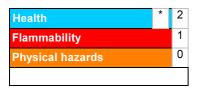
#### History

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revision

Version :

Hazardous Material : National Fire Protection Information System (U.S.A.) Association (U.S.A.)





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Conforms to US HCS (29 CFR 1910.1200).

▼ Indicates information that has changed from previously issued version.

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