



SAFETY DATA SHEET

Windscreen washer fluid,
concentrated
31301249

Date of issue : 12/12/2014.

Version : 4

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

1.1 Product identifier

Product name : Windscreen washer fluid,
concentrated

Product no. : 31301249

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

Product use : Cleaner.

1.3 Details of the supplier of the safety data sheet

Supplier : Volvo Car Customer Service
SE 405 31 Göteborg
Sweden

Telephone no.: : +46-31-66 67 50

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 Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225

Eye Irrit. 2, H319

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

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

Classification : F; R11

Physical/chemical hazards : Highly flammable.

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 pictograms :



Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
Causes serious eye irritation.

Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Keep out of reach of children. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Response

: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

: Store in a well-ventilated place. Keep cool.

Disposal

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

Hazardous ingredients : Propan-2-ol
butanone

2. HAZARDS IDENTIFICATION

Supplemental label elements : Contains <5% perfume, >30% Aliphatic hydrocarbons Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	60 - 100	F; R11	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	5 - 10	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
butanone	REACH #: 01-211-9457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	1 - 5	F; R11 Xi; R36 R66, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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.

Type

[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.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation : If inhaled, remove to fresh air.
Skin contact : Wash contaminated skin with soap and water.
Eye contact : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
Ingestion : Get medical attention. If swallowed, do not induce vomiting.
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.
Skin contact : Defatting to the skin.
Eye contact : Slightly irritating to the eyes.
Ingestion : Ingestion may cause gastrointestinal irritation and diarrhoea.

Over-exposure signs/symptoms

Inhalation : Long-term exposure may cause headache, nausea or weakness.
Skin contact : Defatting to the skin. Skin inflammation is characterised by itching, scaling, reddening or, occasionally, blistering.
Eye contact : May cause eye irritation.
Ingestion : nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically.

Specific treatments : No specific treatment.

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

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable** : Recommended: , alcohol-resistant foam, powders, CO₂
- 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:
carbon oxides

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".

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** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

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.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Protective measures** : Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. 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 reuse.

7.2 Conditions for safe storage, including any incompatibilities

- : Keep container in a cool, well-ventilated area. Keep container tightly closed. Keep away from sources of ignition. Do not store in unlabelled containers.

7.3 Specific end use(s)

- Recommendations** : Cleaner.
- Industrial sector specific solutions** : Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

ethanol

Propan-2-ol

butanone

Occupational exposure limits

ACGIH TLV (United States, 3/2012).

STEL: 1000 ppm 15 minutes.

ACGIH TLV (United States, 3/2012).

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values

TWA: 200 ppm 8 hours.

TWA: 600 mg/m³ 8 hours.

STEL: 300 ppm 15 minutes.

STEL: 900 mg/m³ 15 minutes.

Derived effect levels

No DELs available.

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.

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. In case of inadequate ventilation wear respiratory protection. Recommended filter combination: organic vapour filter (Type A)

Hand protection : For prolonged or repeated handling, use gloves: butyl rubber, neoprene rubber, polymer laminate

Eye protection : Use safety eyewear designed to protect against splash of liquids.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Blue.

Odour : Lemon-like.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : -60°C (-76°F)

Initial boiling point and boiling range : 80 to 85°C (176 to 185°F)

Flash point : Closed cup: 14°C (57.2°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or explosive limits : Lower: 3.5%
Upper: 15%

Vapour pressure : Not available.

Vapour density : Not available.

Relative density : Not available.

Density : 0.81 g/cm³ [20°C (68°F)]

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

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : 425°C (797°F)

Decomposition temperature : Not available.

Viscosity : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2 Other information

No additional information.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials:
carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential acute health effects

- Inhalation** : Slightly irritating to the respiratory system.
- Skin contact** : Defatting to the skin.
- Eye contact** : Slightly irritating to the eyes.
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhoea.

Over-exposure signs/symptoms

- Inhalation** : Long-term exposure may cause headache, nausea or weakness.
- Skin contact** : Defatting to the skin. Skin inflammation is characterised by itching, scaling, reddening or, occasionally, blistering.
- Eye contact** : May cause eye irritation.
- Ingestion** : nausea or vomiting

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
butanone	Eyes - Irritant	Rabbit	-	-	7 days

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Propan-2-ol	Category 3	Not applicable.	Narcotic effects
butanone	Category 3	Not applicable.	Narcotic effects

Potential chronic health effects

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Mutagenicity** : Not applicable
- 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.

Product/ingredient name	Species	Exposure	Result
butanone	Algae - Diatom - Skeletonema costatum	96 hours	Acute EC50 >500000 µg/l Marine water
	Daphnia - Water flea - Daphnia magna - Larvae	48 hours	Acute EC50 5091000 to 6440000 µg /l Fresh water
	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours	Acute LC50 5600000 µg/l Fresh water

12.2 Persistence and degradability

Not available.

12. ECOLOGICAL INFORMATION

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
Propan-2-ol	-	-	Readily
butanone	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ethanol	-0.31	<10	low
Propan-2-ol	0.05	<10	low
butanone	0.29	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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
07 06 04*	other organic solvents, washing liquids and mother liquors

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	1987	1987	1987
14.2 UN proper shipping name	Alcohols, flammable, n.o.s. Ethanol (Ethyl alcohol) (ethanol, Propan-2-ol)	ALCOHOLS, N.O.S. Ethanol (Ethyl alcohol) (ethanol, Propan-2-ol)	ALCOHOLS, N.O.S. Ethanol (Ethyl alcohol) (ethanol, Propan-2-ol)
14.3 Transport hazard class(es)	3 	3 	3 
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.
14.6 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 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 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.

14. TRANSPORT INFORMATION

14.7 Transport in bulk : Not available.
according to Annex II of
MARPOL 73/78 and the IBC
Code

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 : Consumer applications, Industrial applications.

16. OTHER INFORMATION

Full text of abbreviated R phrases : R11- Highly flammable.
R36- Irritating to eyes.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications [DSD/DPD] : F - Highly flammable
Xi - Irritant

Full text of abbreviated H statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Full text of classifications [CLP/GHS] : Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
[Narcotic effects] - Category 3

History

Date of issue / Date of revision : 12/12/2014.

Version : 4

Conforms to 1907/2006/EC (REACH), Article 31

Indicates information that has changed from previously issued version.