

SAFETY DATA SHEET

**ŠKODA**

according to Regulation (EC) No 1907/2006 (REACH) as amended

WASHER FLUID SUMMER 3L

Creation date 22. February 2019 Revision no.
Revision date Version 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture
Number
WASHER FLUID SUMMER 3L
mixture
HBA096037
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Mixture uses advised against
Washer fluid for summer operation with improved insect removal.
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name
Address
VAT Reg No
Phone
E-mail
Web address
Competent person responsible for the safety data sheet
Name
E-mail
ŠKODA AUTO a.s.
tř. Václava Klementa 869, Mladá Boleslav II, 293 01
Czech Republic
CZ00177041
+420 326 811 111
msds@skoda-auto.cz
www.skoda-auto.cz
Ing. Tadeáš Narovec
tadeas.narovec@skoda-auto.cz
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Substance or mixture classification**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.
Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**
Supplemental information
>=30 % anionic surfactants
There is no need for this product to be labelled in accordance with paragraph 1.3.4, Annex I, Regulation (EC) No 1272/2008, as amended.
- 2.3. Other hazards**
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**
Chemical characterization
Mixture of substances and additives specified below.
Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	<4	Flam. Liq. 2, H225 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28	ethanediol	<0.2	Acute Tox. 4, H302 STOT RE 2, H373	1

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air.

Skin contact

Remove contaminated clothes.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

Ingestion

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**Inhalation**

Not expected.

Skin contact

Not expected.

Eye contact

Not expected.

Ingestion

Not expected.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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- 6.3. Methods and material for containment and cleaning up**
After removal of the product, wash the contaminated site with plenty of water.
- 6.4. Reference to other sections**
See the Section 7, 8 and 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.
- 7.2. Conditions for safe storage, including any incompatibilities**
Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.
Storage temperature min 5 °C, max 25 °C
- 7.3. Specific end use(s)**
not available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
The mixture contains substances for which occupational exposure limits are set.

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethanediol (CAS: 107-21-1)	OEL	8 hours	52 mg/m ³		EU limits
	OEL	8 hours	20 ppm		
	OEL	Short-term	104 mg/m ³		
	OEL	Short-term	40 ppm		
	OEL	8 hours	52 mg/m ³	skin	
	OEL	8 hours	20 ppm	skin	
	OEL	Short-term	104 mg/m ³	skin	
	OEL	Short-term	40 ppm	skin	

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethanol (CAS: 64-17-5)	WEL	8 hours	1920 mg/m ³		Gestis
	WEL	8 hours	1000 ppm		
ethanediol (CAS: 107-21-1)	WEL	8 hours	10 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Particulates only	GBR
	WEL	8 hours	20 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethanediol (CAS: 107-21-1)	WEL	8 hours	52 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	GBR
	WEL	15 minutes	104 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	15 minutes	40 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

When handling in long-term or repeatedly, use protective gloves.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Physical state	liquid at 20°C
color	green
Odour	according to fragrance
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	>65 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	3.3 %
upper	19 %

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Vapour pressure	59 mbar at 20 °C
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	>400 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

9.2. Other information

Density	0.968 g/cm ³ at 20 °C
ignition temperature	data not available
content of organic solvents (VOC)	0.03 kg / 1 Kg
total organic carbon (TOC)	0.02 kg / 1 Kg
solid content (dry matter)	<1 % volume

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral			500 mg/kg			
Inhalation	LC ₅₀		>2.5 mg/l	6 hour	Rat (Rattus norvegicus)	
Dermal	LD ₅₀	OECD 402	>3500 mg/kg		Mouse	

ethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC ₅₀		124.7 mg/l	4 hour	Rat	
Oral	LD Lo		7000 mg/kg bw		Rat	
Inhalation (vapor)	LC ₅₀		116.9 mg/l	4 hour	Rat	

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ethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LC ₅₀		133.8 mg/l	4 hour	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Result	Time of exposure	Species
Dermal	Not irritating		Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Result	Time of exposure	Species
Eye	Not irritating		Rabbit

ethanol

Route of exposure	Result	Time of exposure	Species
	Irritating		Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Result	Time of exposure	Species	Sex
Dermal	Negative		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	

Germ cell mutagenicity

Based on available data the classification criteria are not met.

ethanediol

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 471				

Carcinogenicity

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Parameter	Value	Time of exposure	Result	Species	Sex
Oral			2 year	Negative	Mouse	

ethanol

Route of exposure	Parameter	Value	Time of exposure	Result	Species	Sex
Oral				Indeterminate	Rat	

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Reproductive toxicity

Based on available data the classification criteria are not met.

ethanol

	Parameter	Value	Result	Species	Sex
Effects on fertility	NOAEL	>16000 ppm	No effect	Rat	
	NOAEL	5200 mg/kg/24hour	Indeterminate	Rat	

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Time of exposure	Specific target organ	Result	Species	Sex
Inhalation	LOAEL	2.6 mg/l	30 min	Nervous system	Drowsiness, Dizziness	Human	
Inhalation	LOAEL	9.4 mg/l		Lungs	Indeterminate	Human	

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

ethanediol

Route of exposure	Parameter	Value	Specific target organ	Result	Species	Sex
Oral		>10-100 mg/kg	Kidney			

Repeated dose toxicity

ethanediol

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Oral	NOAEL			150 mg/kg	2 year	Rat (Rattus norvegicus)	
Dermal	NOAEL		OECD 410	2200-4400 mg/kg	4 week	Dog	

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

ethanediol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀		72860 mg/l	96 hour	Fishes (Pimephales promelas)		
EC ₅₀	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)		

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ethanediol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC ₅₀		6500-13000 mg/l	96 hour	Algae (Pseudokirchneriella subcapitata)		

ethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
EC 0		3.9 g/l	200 hour	Fishes		Experimentally
EC ₅₀		>10000 mg/l	24 hour	Daphnia		Experimentally
EC ₅₀		8800 mg/l	96 hour	Algae		Experimentally

Chronic toxicity

ethanediol

Parameter	Value	Time of exposure	Species	Environment	Determining method
NOEC	15380 mg/l	7 day	Fishes (Pimephales promelas)		
NOEC	8590 mg/l	7 day	Daphnia (Ceriodaphnia dubia)		

ethanol

Parameter	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	9248 mg/l	48 hour	Invertebrates		Experimentally
NOEC	250 mg/l	120 hour	Fishes (Oncorhynchus mykiss)		Experimentally
NOEC	1000 mg/l	120 hour	Fishes		Experimentally

12.2. Persistence and degradability

Biodegradability

ethanediol

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301A	90-100 %	10 day		Easily biodegradable

Data not available.

12.3. Bioaccumulative potential

ethanediol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	10		Fishes (Leuciscus idus)		
Log Pow	-1.93				

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

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12.6. Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 06 00 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1. UN number

Not subject to ADR.

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

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Guidelines for safe handling used in the safety data sheet

P102 Keep out of reach of children.
P233 Keep container tightly closed.
P301+P310 IF SWALLOWED: Immediately call a doctor.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road
BCF Bioconcentration Factor
CAS Chemical Abstracts Service
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

DNEL Derived no-effect level
EC Identification code for each substance listed in EINECS
EC₅₀ Concentration of a substance when it is affected 50% of the population
EINECS European Inventory of Existing Commercial Chemical Substances
EmS Emergency plan
EU European Union
IATA International Air Transport Association
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

IC₅₀ Concentration causing 50% blockade
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry
LC₅₀ Lethal concentration of a substance in which it can be expected death of 50% of the population

LD₅₀ Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC Lowest observed adverse effect concentration
LOAEL Lowest observed adverse effect level
log K_{ow} Octanol-water partition coefficient
MARPOL International Convention for the Prevention of Pollution From Ships
NOAEC No observed adverse effect concentration
NOAEL No observed adverse effect level
NOEC No observed effect concentration
NOEL No observed effect level
OEL Occupational Exposure Limits
PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration
ppm Parts per million
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Agreement on the transport of dangerous goods by rail
UN Four-figure identification number of the substance or article taken from the UN Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological materials

VOC Volatile organic compounds
vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity
Flam. Liq. Flammable liquid
STOT RE Specific target organ toxicity - repeated exposure

Training guidelines

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Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornyčová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.