

Safety Data Sheet
in accordance with Regulation (EC) No.
1907/2006

Zolleks Avto d.o.o.

ZOLLEX ENGINE FLUSHDate of issue: 18/08/2014
Version: 1**1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name	ZOLLEX ENGINE FLUSH
Substance/mixture	Mixture

1.2 Relevant identified uses of the substance/mixture and inadvisable uses

Identified uses: Oil system cleaner

1.3 Details of the supplier of the Safety Data Sheet**Supplier:**

Zolleks Avto d.o.o.
Kidričeva cesta 97
SI-4220 Škofja Loka

Telephone: +386 4 502 07 10
Telephone: +386 4 502 07 19

E-mail address of the person responsible for drawing up the safety data sheet:
info@zolleks.si

1.4 Emergency telephone number

Emergency call – Slovenia: 112

2. HAZARD IDENTIFICATION**2.1 Classification of the substance/mixture****Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

Xn; R65

For the full text of the R-phrases mentioned in this Section, see Section 16.

Classification in accordance with Regulation 1272/2008

Asp. Tox. 1; H304

For the full text of the H-statements mentioned in this Section, see Section 16.

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2.2 Label elements**Classification in accordance with Regulation 1272/2008**

Pictogram:



Signal word: HAZARDOUS

Hazard statements:

H304 May be fatal if swallowed and enters airways.

Contains: naphtha solvent (petroleum), heavy aromatic

Precautionary statements:

P102 Keep out of reach of children.

P301+P310 IF SWALLOWED: Immediately call POISON CONTROL UNIT or doctor/physician.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations.

Detergents Regulation: Contains: >30% aromatic hydrocarbons

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Chemical Name	CAS ES Index	REACH Reg. No.	Content in %	Classification (Directive No. 67/548)	Classification (Regulation No. 1272/2008)
Naphtha solvent (petroleum), heavy aromatic	64742-94-5 265-198-5 649-424-00-3	-	60-80%	Xn; R65	Asp. Tox. 1 H 304
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0	-	≤ 1%	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4 (*); H332 Acute Tox. 4 (*); H312 Acute Tox. 4 (*); H302 Eye Irrit. 2 : H319 Skin Irrit. 2; H315
Mineral oil	8042-47-5 232-455-8	-	5-10%	-	-

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T154	- - -	-	1-3%	-	-
T203	- - -	-	≤ 0.5%	-	-

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first-aid measures

- General** In case of discomfort or feeling unwell seek medical advice and show the label, if possible. Never put anything into the mouth of an unconscious person.
- Inhalation** Move affected person to fresh air. If necessary, apply artificial respiration.
- Skin contact** Immediately wash the skin with plenty of water and rinse thoroughly. If skin irritation occurs, immediately seek medical attention.
- Eye contact** Wash the eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
- Ingestion** Do not induce vomiting, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Inhalation:** Symptoms may include cough, sneezing, snivel, headache, dry throat and nose and sore throat.
- Skin contact:** Symptoms may include local skin redness, swelling and itching.
- Eye contact:** Symptoms may include eye redness, swelling, pain, lacrimation and blurred vision.
- Ingestion:** Symptoms may include stomach aches, gastric irritation, nausea, vomiting and diarrhoea. May be fatal if swallowed and enters airways.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents Carbon dioxide, powder (fire extinguisher class B).

Unsuitable extinguishing agents No information available.

5.2 Special hazards arising from the

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Special hazards Keep containers cool with water spray from a safe distance.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters Wear normal protective clothing for fighting a fire involving chemicals.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with eyes and skin. Ventilate the area. Do not breathe vapours. Remove all sources of ignition. Contain spilled material.

6.2 Environmental precautions

Do not allow to flow into sewage system/surface water/groundwater.

6.3 Cleaning up methods, materials and retention

Blot dry spill with adsorbent non-flammable material and close it in appropriately labelled disposal containers. Wash out the area with water.

6.4 Reference to other sections

Personal protective equipment See Section 8.
Waste management See Section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice for safe handling Avoid contact with skin and eyes. Keep out of the reach of children. Do not breathe vapour. After using this product thoroughly wash your hands with water and soap.

7.2 Conditions for a safe storage, including any incompatibilities

Technical measures/storage conditions Keep container tightly closed in a dry and cool place. Keep away from food, drink and animal feedingstuffs. Maximum storage period: 2 years. Do not expose to direct sunlight.

Incompatible materials No information available.

7.3 Specific end uses No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Occupational exposure limit values for ingredients:
CAS: 111-76-2, 2-butoxyethanol

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Limit value: 98 mg/m³, 20 ppm
STEL: 2.5
Note: K, EU

Source: Source: Rules on the protection of workers from the risks related to exposure to chemical substances at work (OG RS No. 102/2010)

8.2 Exposure controls**Engineering controls**

Use only in well-ventilated areas. In confined spaces use general ventilation or local suction system. The standard precautionary measures are to be adhered to when handling chemicals.

Personal protective equipment**General information**

Immediately remove contaminated, soaked clothing. Wash hands and face after work. When using this product do not eat or drink.

Respiratory protection

Not intended under normal operating conditions. In case of insufficient ventilation use half mask.

Hand protection

Safety gloves. Glove material should be selected based on the breakthrough time, level of permeability and degradation.

Glove material:

The choosing of appropriate gloves does not depend only on the material, but more on several other properties – therefore the differences between different glove manufacturers. As the product presents a mixture of substances, the persistence of the glove material cannot be foreseen. Every pair of gloves should therefore be examined before its use.

The breakthrough time of the glove material:

The exact breakthrough time that you should take into consideration is available at the safety glove manufacturer.

Eye protection

Use of safety glasses with side shields is recommended.

Skin and body protection

Not intended.

8.3 Environmental exposure controls**General information**

Not determined.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Colourless
Odour	Distinctive
pH	No information available
Flash point	No information available
Boiling point	No information available
Vapour pressure	No information available
Density	0.76–0.79 g/cm ³
Vapour density (air = 1)	2.97

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Content of HOS	< 650 g/l
Water solubility	Immiscible with water

9.2 Other information No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity No information available.

10.2 Chemical stability Product is stable under normal use conditions.

10.3 Possibility of hazardous reactions: Hazardous polymerisation will not occur.

10.4 Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous decomposition products No information available.

11. TOXICOLOGICAL INFORMATION

(a) Acute toxicity	May be fatal if swallowed and enters airways.
(b) Irritation	No information available.
(c) Corrosivity	No information available.
(d) Sensitization	No information available.
(e) Repeat dose toxicity	No information available.
(f) Carcinogenicity	No information available.
(g) Mutagenicity	No information available.
(h) Toxicity for reproduction	No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity No information available.

12.2 Persistence and degradability No information available.

12.3 Bioaccumulative potential No information available.

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment No information available.

12.6 Other adverse effects Prevent pollution of water resources, water courses and groundwater.

13. DISPOSAL CONSIDERATIONS

13.1 Waste management methods

Contaminated packaging: Packaging is not reusable. Packaging must be disposed at an authorised collector and disposer of hazardous waste.

National regulations regarding waste:
- Decree on waste

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- Decree on the management of packaging and packaging waste

14. TRANSPORT INFORMATION

- 14.1 UN number: -
 14.2 UN proper shipping name: -
 14.3 Transport hazard classification: -
 14.4 Packaging group: -
 14.5 Environmental hazard: -
 14.6 Special precautions for user: -
 14.7 Transport in bulk according to Annex II of the MARPOL Convention 73/78 and the IBC Code: no information available

15. REGULATORY INFORMATION

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

European Union

Regulation 1907/2006 (REACH), Directive 67/548/EEC and 1999/45/EC

Regulations in Slovenia

- Chemicals Act
- Rules on the classification, packaging and labelling of dangerous substances
- Rules on the classification, packaging and labelling of dangerous preparations
- Decree on waste
- Decree on the management of packaging and packaging waste
- Rules on the protection of workers from the risks related to exposure to chemical substances at work
- Rules on personal protective equipment used by workers at work

15.2 Chemical safety assessment

Chemical safety assessment has not been made.

16. OTHER INFORMATION

Source of the safety data sheet: Composition of the product, manufacturer's safety data sheet

List of relevant R-phrases, hazard statements, safety phrases and/or precautionary statements

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

R65 Harmful: may cause lung damage if swallowed.

H304 May be fatal if swallowed and enters airways.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Date of previous issue: -

Abbreviations:

TWA (time-weighted average): daily exposure limit value (8 h)

STEL (short-term exposure limits): limit value for short-term exposure

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REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals
MV: occupational exposure limit value 8 h

The above information is based on our present knowledge and experience and relates to the product in the state in which it has been delivered. The information is to describe our product regarding safety requirements. Entries do not constitute a guarantee of the product properties in the legal sense. It is the consumer's responsibility to know and take into account the legal provisions relating to the transport and use of the product.

End of the safety data sheet