



Safety Data Sheet According to 1907/2006/EC, Article 31

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1. Identification of Product and Company's Name:

PRODUCT DETAIL

Trade Name: OWS Z Engine Flush

Article Number: 8120

Application of the substance / the preparation:

Manufacturer / Supplier:

Our Workshop System (S) Pte Ltd
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Further information obtainable from:

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2. Possible Hazards:

Hazard designation:



Xn Harmful

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Danger of suffocation at accumulation in lower lying or closed rooms

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

Classification system:


The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3. Composition/Ingredients:

· Chemical characterization

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 64742-47-8 Distillates (petroleum), hydrotreated light  Xn; R 65-66 50%
EINECS: 265-149-8

CAS: 141-78-6 ethyl acetate  Xi.  F; R 11-36-66-67 7%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons 40%

aromatic hydrocarbons 3%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures:

After inhalation:

Supply fresh air; consult doctor in case of complaints.
Take affected persons into fresh air and keep quiet.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
Immediately remove any clothing soiled by the product.
If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Information for doctor:

The following symptoms may occur:

Headache
Dizziness
Nausea
Unconsciousness

5. Fire Fighting measures:

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures:

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Additional information:

See Section 13 for disposal information.

7. Storage and Handling:

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Keep away from sources of ignition - No smoking.

Prevent formation of aerosols.

Avoid contact with skin and eyes.

Information about fire - and explosion protection:

Protect against electrostatic charges.

Storage:

Requirements to be met by storerooms and receptacles:
Information about storage in one common storage facility:
Further information about storage conditions:

Store in a cool location.
 Not required.
 Protect from heat and direct sunlight.

8. Explosion Control/Personal Protection:

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm
 Long-term value: 200 ppm

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR
 Recommended thickness of the material: ³ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

³ 240 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

9. Physical & Chemical Characteristics:

General Information

Form: Fluid

Colour: Colourless

Odour: Solvent-like

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Undetermined.

Danger of explosion: Product does not present an explosion hazard.

Density at 20°C: 0.8 g/cm³

Solubility in / Miscibility with water: Not miscible or difficult to mix.

10. Stability & Reactivity Data:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological Information:

Acute toxicity:

LD/LC50 values relevant for classification:

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4	h >5 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)

Primary irritant effect:

on the skin:	No irritant effect.
on the eye:	No irritating effect.
Sensitization:	No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful

12. Ecological Information:

Information about elimination (persistence and degradability):

Other information: The product is biodegradable.

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13. Disposal Instructions:

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

07 06 04	other organic solvents, washing liquids and mother liquors
15 01 10	packaging containing residues of or contaminated by dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transportation Instructions:

Land transport ADR/RID (cross-border)

ADR/RID class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

15. Regulation Instructions:

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful

Hazard-determining components of labelling: Destillate (Erdöl), mit Wasserstoff behandelt.

Risk phrases:

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe fumes/aerosol.

24 Avoid contact with skin.

56 Dispose of this material and its container to hazardous or special waste collection point.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. Other Information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

11 Highly flammable.

36 Irritating to eyes.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

* **Data compared to the previous version altered.**