

DIESEL ONE SHOT

Creation date	01st June 2022	Version	3.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture DIESEL ONE SHOT
Number mixture
1 35601
UFI 0YH3-DDQV-000P-9QPV
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Fuel additive. For professional use only.
Mixture uses advised against
not available
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.
- Asp. Tox. 1, H304
Aquatic Chronic 3, H412
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse effects on human health and the environment**
May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Hazard statements

H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

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

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash contaminated skin thoroughly after handling.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to in accordance with national regulations.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

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
EC: 926-141-6 Registration number: 01-2119456620-43	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	60-100	Asp. Tox. 1, H304 EUH066	
CAS: 27247-96-7 EC: 248-363-6	2-ethylhexyl nitrate	5-<10	Acute Tox. 4, H302+H312+H332 Aquatic Chronic 2, H411	
CAS: 104-76-7 EC: 203-234-3 Registration number: 01-2119487289-20	2-ethylhexan-1-ol	1-<5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	1

Notes

1 Substance with a Union workplace exposure limit.

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

Personal protective equipment must be donned before entering the contaminated area. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Protect the person against growing cold. Loosen tight clothing such as a collar, tie, belt or waistband. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free. Provide medical treatment.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Provide medical treatment if skin irritation persists. Protect against flames, sparks, overheating.

If in eyes

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. Rinsing should continue at least for 10 minutes. In the event of issues, find medical help.

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If swallowed

Rinse out the mouth with clean water. Stop if the exposed person feels sick as vomiting may be dangerous. If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Do not induce vomiting unless directed to do so by medical personnel. Do not provide anything by mouth if the person is unconscious or if having cramps. Remove person to fresh air and keep comfortable for breathing. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards.

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

Prolonged inhalation of high concentrations may damage respiratory system.

If on skin

Repeated exposure may cause skin dryness or cracking.

If in eyes

Possible irritation.

If swallowed

Gastrointestinal symptoms, including upset stomach. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

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**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. In the event of fire toxic gases may arise.

5.3. Advice for firefighters

Do not inhale gases and vapours. Evacuate area. Closed containers with the product near the fire should be cooled with water. Move containers from fire area if safe to do. Cool containers exposed to flames with water until well after the fire is out. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. Use a self-contained breathing apparatus and full-body protective clothing. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting.

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

Provide sufficient ventilation. No action shall be taken involving any personal risk or without suitable training. Keep unprotected persons away. Use personal protective equipment as per Section 8. Contaminated skin should be washed thoroughly. Do not touch or walk through spilt material. Remove all ignition sources. No smoking. Keep away from sparks, open flames and other ignition sources.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. The product contains volatile substances which may spread in the atmosphere.

6.3. Methods and material for containment and cleaning up

Small spill: Collect spillage. Large spill: Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. 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.

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SECTION 7: Handling and storage
7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Do not store together with food, drink and animal feed. Keep container tightly closed. Do not inhale vapours. Do not inhale aerosols. Prevent contact with skin and eyes. Contaminated rags and cloths must be put in fireproof containers for disposal. Prevent formation of gases and vapours in flammable or explosive concentrations. Vapours mixed up with air can be explosive. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Wash hands and exposed parts of the body thoroughly after handling. Remove contaminated clothes. And wash it before reuse. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

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. Store away from incompatible materials. Protect against strong oxidizing agents. Keep away from sources of heating, ignition and direct sunlight. Keep only in original packaging. Keep containers upright. Protect containers from damage. Take action to prevent static discharges.

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
Commission Directive (EU) 2017/164

Substance name (component)	Type	Value
2-ethylhexan-1-ol (CAS: 104-76-7)	OEL 8 hours	5,4 mg/m ³
	OEL 8 hours	1 ppm

DNEL

2-ethylhexan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	12.8 mg/m ³	Systemic chronic effects		
Workers	Inhalation	53.2 mg/m ³	Local chronic effects		
Workers	Dermal	23 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	2.3 mg/m ³	Systemic chronic effects		
Consumers	Inhalation	26.6 mg/m ³	Local chronic effects		
Consumers	Dermal	11.4 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	1.1 mg/kg bw/day	Systemic chronic effects		

PNEC

2-ethylhexan-1-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.017 mg/l		
Seawater	0.002 mg/l		
Microorganisms in wastewater treatment plants	10 mg/l		
Freshwater sediment	0.284 mg/kg		
Sea sediments	0.028 mg/kg		

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. Observe any occupational exposure limits for the product or ingredients. Ensure workplace is equipped with a safety shower and eye wash station. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. EN166 - Personal Eye Protection Standard.

Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. Protective gloves shall be replaced immediately when damaged. Frequent changes are recommended. Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Wear anti-static protective clothing if there is a risk of ignition from static electricity.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Keep container tightly closed.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	almost insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
data not available	

9.2. Other information

Evaporation rate	non-applicable
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SECTION 10: Stability and reactivity**10.1. Reactivity**

not available

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10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Heating may cause a fire or explosion. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect against direct sunlight. Take action to prevent static discharges.

10.5. Incompatible materials

Protect against strong oxidizing agents and reducing agents.

10.6. Hazardous decomposition products

The product is stable and no degradation occurs under normal use. In the event of fire toxic gases may arise.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	ATE	11804.35 mg/kg			
Dermal	ATE	13525.82 mg/kg			
Inhalation (vapor)	ATE	135.26 mg/l			
Inhalation (dust/mist)	ATE	126.07 mg/l			

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

not available

SECTION 12: Ecological information**12.1. Toxicity****Acute toxicity**

Harmful to aquatic life with long lasting effects.

More information

The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

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Data not available.

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

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.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Unknown.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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. 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. Empty containers must not be punctured or incinerated because of the risk of an explosion. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Do not empty unused product in drainage systems.

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

16 03 05 organic wastes containing hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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.

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15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash contaminated skin thoroughly after handling.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to in accordance with national regulations.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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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
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
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

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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
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 18 January 2016. Changes were made in sections 1, 2, 3, 7, 8, 11, 12, 13, 14, 15 and 16.

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.