



## MATERIAL SAFETY DATA SHEET

Additives for diesel fuel

Date: 23.04.2019

### I – IDENTIFICATION OF THE PRODUCT AND COMPANY

Trade Name	<b>LUBRICATING ADDITIVE FOR INJECTION PUMP, DECARBONIZER FOR DIESEL FUEL</b>
Purpose	"LUBRICATING ADDITIVE FOR DIESEL FUEL" is designed to improve the lubricating characteristics of diesel fuel. "DECARBONIZER FOR DIESEL FUEL" is designed for cleaning and reducing deposits in the combustion chamber.
Producer	VMPAUTO LLC
Address	Promyshlennaya str. 40A, 198095, Saint-Petersburg, Russia
Tel/Fax: E-mail	+7 (812) 601-05-50 / 601-05 59, export@vmpauto.com

### II – HAZARDS IDENTIFICATION

Classification	The material is hazardous as defined in TC 0254-003-45540231-99.
Hazard for health	Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. May cause eye, nose, throat, and lung irritation. Can cause depression of the central nervous system.
Ecological hazard	R52 / 53; Toxic to organisms that live in water, can cause long-term adverse effects in the aquatic environment.

### III – COMPOSITION

Chemical composition	Products are solutions of functional additives in mixed solvents.		
Name of the product	Chemical name	Volume %	CAS-Number, mg/m <sup>3</sup>
DECARBONIZER FOR DIESEL FUEL, LUBRICATING ADDITIVE FOR DIESEL FUEL	Solvent naphtha (petroleum), heavy arom.	70 - 80%	64742-94-5
	2-Ethylhexyl nitrate	5 - 10%	27247-96-7
	Acids, tall oil	10 - 20%	61790-12-3
	Secure components.	other	no

### IV – FIRST-AID MEASURES

General information	This material is harmful in accordance with regulatory documentation    Xn; R65   R66   R67   N; R51 / 53   The material can emit fumes that easily form flammable mixtures. The accumulation of vapors may cause a flash and / or explosion in the event of ignition. The material can accumulate static charges, which can cause ignition.
Eyes	Washout eyes with big quantity of water during 15 minutes. If irritation continues, consult a doctor.
Skin	Take off dirty clothes. Polluted skin washout with soap. Under normal use doctor's consultation is not necessary.
Anatomical airways	Go outside. If breathing is difficult – consult a doctor.



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Digestive system	Do not induce vomiting. If health is worth, consult a doctor.
<b>V- MEASURES AND MEANS OF PREVENTING FIRE AND EXPLOSION HAZARD</b>	
Firefighting tools	Firefighting tools are used that don't keep on fire (sand, large felt melt, water, chemical foam, dry powder etc.)
Special hazard	Risk is not identified.
Prohibited means	Do not use water in the form of a jet.
Means of individual protection	Protective suit, respirator, isolated gas mask.
<b>VI- MEASURES OF PREVENTING AND LIQUIDATION OF ACCIDENTS AND EMERGENCES</b>	
Poured product is swamped with sand, clay or other inertial material is scooped up mechanically. Utilize proper way. It doesn't let product get in drinking sources on water pools surfaces, sewerage and soil.	
<b>VII- STORAGE REGULATIONS OF CHEMICAL PRODUCTION AND ITS TREATMENT UNDER HANDLING OPERATIONS</b>	
General safety rules	Under normal use of product is stable and does not require special protective equipment. Product relates to hardly combustible and low toxic class.
Handling	It is not necessary under normal use.
Storage	Use rubber gloves.
Recommended materials	It is not necessary under normal use.
Incompatible materials	It is not necessary under normal use.
<b>VIII- CONTROL MEASURES FOR HAZARDS AND MEANS OF INDIVIDUAL PROTECTION</b>	
General information	Under normal use the product is stable and it doesn't require special protective equipment. The product belongs to the class of combustible products.
Protection of breathing	It is not required under right application.
Protection of eyes	It is not required under right application.
Protection of skin	It is not required under right application.
Protection of hands	Use rubber gloves.
<b>IX – PHISICAL AND CHEMICAL PROPERTIES</b>	
Physical condition	Viscous liquid.
Temperature of flash-point	>65
Density, g/cm <sup>3</sup> , not less then	0,85-0,90
Solubility in water	Not soluble
Boiling point 0C	160-220
Conventional viscosity by viscometer VZ-246 (4mm) at 20 ° C, within	15-25
Autoignition temperature 0C	>400
Oxidizing properties	None
Vapor pressure, at 25 ° C, kPa	1,0
<b>X – STABILITY AND REACTION CAPACITY</b>	
Chemical stability	Material is stable under normal use conditions and storage.
Hazard of polymerization	Not hazardous
Incompatibility	With strong oxidants
Hazardous products of decomposition	Under normal storage conditions, formation of hazardous products is not supposed.
<b>XI –TOXICOLOGICAL INFORMATION</b>	
The product according to the degree of exposure to the body belongs to the third hazard class (low-hazard substances according to GOST 12.1.007).	
Irritation of skin	Minimally toxic. It is based on test data of structurally similar materials. Toxicity (Rabbit): LD50> 2000 mg / kg



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Irritation of eyes	May cause a mild short-term feeling of discomfort to the eyes. It is based on test data of structurally similar materials.
Other toxicological information	Information is based on properties of raw materials. It is not proved its carcinogenic or mutagenic property.

#### XII – ECOLOGICAL INFORMATION

Protection of the environment is ensured by the production of sealed technological equipment. There are no liquid or solid wastes.

**MOBILITY**

Material - It is expected that it will be separated into sediment and solids remaining in the waste water. It has moderate volatility.

**SUSTAINABILITY AND DEGRADABILITY**

**Biodegradation:**

Material - It is expected that the material is inherent property of biodegradation.

**Hydrolysis:**

Material - It is not expected that the conversion caused by hydrolysis will be significant.

**Photolysis:**

Material - It is not expected that the conversion caused by photolysis will be significant.

**Atmospheric oxidation:**

Material - Expected rapid destruction in the air

#### XIII – RECOMMENDATIONS FOR WASTE UTILISATION (REMAIDERS)

Wastes (remainders) place in strictly labeled container for next utilization and regeneration. Any means of actions with wastes must be appropriate to all local and public laws and normative acts.

Do not discharge into drains, on land or in any water.

The product can be burned in closed controlled furnaces as fuel or eliminated by controlled combustion at very high temperatures in order to prevent the formation of undesirable combustion products.

#### XIV – INFORMATION AT TRANSPORTATIONS (SHIPMENT)



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### GROUND TRANSPORT (ADR / RID)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, WITHOUT SPECIFICATION (Alkyl (C3-C5) benzenes)

**Hazard Class:** 9

**Classification code:** M6

**UN Number:** 3082

**Packing group:** III

**Label (s) / Labeling (s):** 9, EHS

**Hazard identification code:** 90

**Hazardous chemical substance EAC:** 3Z

### INLAND WATER (ADNR / ADN)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, WITHOUT SPECIFICATION (Alkyl (C3-C5) benzenes)

**Hazard Class:** 9

**Hazard identification code:** 90

**UN or ID number:** 3082

**Packing group:** III

**Label (s) / Labeling (s):** 9 (N2, F), EHS

### MARITIME TRANSPORT (RID, International Maritime Dangerous Goods Code)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, WITHOUT SPECIFICATION (naphthalene)

**Hazard Class and Hazard Class:** 9

**UN Number:** 3082

**Packing group:** III

**Marine pollutant:** Yes

**Label (s):** 9

**EMS number:** F-A, S-F

**Name of transport document:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, WITHOUT SPECIFICATION (naphthalene), 9, PACKING GROUP III, (61 ° C c.c.), SEA POLLUTANT

### AIR TRANSPORT (International Air Transport Association)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, WITHOUT SPECIFICATION (Alkyl (C3-C5) benzenes)

**Hazard Class and Hazard Class:** 9

**UN Number:** 3082

**Packing group:** III

**Label (s) / Labeling (s):** 9, EHS

**Name of transport document:** UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, WITHOUT SPECIFICATION (alkyl (C3-C5) benzenes), 9, PACKING GROUP III



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Laws of the Russian Federation:

" About technical regulation";

" About environmental safety";

"About sanitary-epidemiological well-being of the population".

CLASSIFICATION: Harmful. Dangerous for the environment. The classification of this product is based, in whole or in part, on test results.

EU MARKING:

Symbol: Xn; N



**Nature of special risk:** R65; Harmful: may cause lung damage if swallowed. R66; Repeated exposure may cause skin dryness or cracking. R67; Vapors may cause drowsiness and dizziness. R51 / 53; is toxic to organisms that live in water. May cause long-term adverse effects in the aquatic environment.

**Security Council:** S23; Do not breathe gas / smoke / vapor / spray S24; Avoid contact with skin. S57; use appropriate container to avoid environmental contamination. S60; This material and the container in which it is contained must be disposed of as hazardous waste. S62; If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains: naphtha solvent (petroleum), heavy aromatics

### XVI – ADDITIONAL INFORMATION

N / D = not defined, N / A = not applicable

DISCRIPTION OF RISK CODES MEASURING IN SECTIONS 2 AND 3 OF THIS DOCUMENT (for information only):

R22; Harmful if swallowed.

R40; Limited evidence of a carcinogenic effect.

R50 / 53; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51 / 53; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65; Harmful: may cause lung damage if swallowed.

R66; Repeated exposure may cause skin dryness or cracking.

R67; Vapors may cause drowsiness and dizziness.

Contents and form of the given document corresponds to requirements:

1. GOST 30333-2007 "Passport of safety of chemical production. General requirements".

2. GOST 12.1.007-76 « Harmful substances. Classification and general safety requirements".

3. GOST 12.1.005-88 «General sanitary-epidemiological requirements to air of working zone".

4. GN 2.1.5.1315-03 "Maximum permissible concentration of (MPC) of chemical substances in water of water pools for household-drinking and cultural-household water management".

5. GOST 19433-88 «Hazardous loads. Classification and labeling".

Information in this Safety Card corresponds to the latest modern level of our knowledge about product.

Product is applied and used in accordance to given advises. Information in this Safety Card does not compile instruction on the workplace.

The information contained in this document should be made available to all potential users of this product.

For getting additional information about product, contact Sales Department of VMPAUTO LLC (Tel/Fax: +7 (812) 601 05 50.