



MATERIAL SAFETY DATA SHEET

Date: 23.02.2019

I – IDENTIFICATION OF THE PRODUCT AND COMPANY

Trade Name	RESURS [®] , RESURS TOTAL, RESURS DIESEL, R1metall, R1metall T, RESURS TOTAL T (RESURS T) (for mechanical transmission), RESURS TOTAL AT (RESURS AT) (for automatic transmission), RESURS FLEET, RESURS FLEET AT, RESURS FLEET T, EasyMix NC, RESURS NEXT, RESURS NEXT concentrated, RESURS-MOTO, RESURS MOTO concentrated, RESURS UNIVERSAL, RESURS SUPER
Purpose	Restoration and anti-wear protection of parts of internal-combustion engines and transmissions.
Producer	VMPAUTO LLC
Address	Promyshlennaya str. 40A, 198099, 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 not hazardous as defined in TC 0257-018-45540231-2005.
Hazard for health	It is not hazardous for health under normal application conditions.
Ecological hazard	It is not classified as hazardous substance for environment.

III – COMPOSITION

Chemical composition	Product is a composition of mineral oil, emulsifier, inhibitor of corrosion and filler.			
Name of the product	Chemical name	Volume %	CAS-Number, mg/m ³	MPC, w.a.
<i>metal restorer</i> RESURS	Mixture of different nano metal particles	0,5 – 20,00	7440-50-8	1,0 – 0,5
	ZnDTP (ZincDiThioPhosphate)	0,00-0,05	7282-28-2	no
	Synthetic oil	remainder	8042-47-5	5,0
	Stearin acid	0,5 – 11,0	57-11-4	5,0

IV – FIRST-AID MEASURES

General information	It is not hazardous for health under normal application conditions.
Eyes	Washout eyes with big quantity of water during 15 minutes. If irritation continues, consult a doctor.
Skin	Take off dirty dress. 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.
Digestive system	Cure is not necessary. Exception is sudden swallowing of big quantity of product. If health is worth, consult a doctor.

V- MEASURES AND MEANS OF PREVENTING FIRE AND EXPLOSION HAZARD

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.

VI- MEASURES OF PREVENTING AND LIQUIDATION OF ACCIDENTS AND EMERGENCES

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.	
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VII- STORAGE REGULATIONS OF CHEMICAL PRODUCTION AND ITS TREATMENT UNDER HANDLING OPERATIONS	
General safety rules	Under normal use of RESURS product is stable and does not require special protective equipment. Product RESURS 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.
VIII- CONTROL MEASURES FOR HAZARDS AND MEANS OF INDIVIDUAL PROTECTION	
General information	Under normal use of RESURS preparation, product is stable and it doesn't require special protective equipment. Preparation of RESURS is related to hard-combustible and low-toxic 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.
IX – PHYSICAL AND CHEMICAL PROPERTIES	
Physical condition	Viscous liquid from brown to black color.
pH of water solute	Not identified
Mass part of solid residue, %	From 1 to 30 (depends on product mark)
Temperature of flash-point	145 °C
Temperature of boiling	N/A
Temperature of melting point	N/A
Flammability	Not flammable
Oxidizing properties	Absent
Pressure of vapor	N/A
Funnel viscosity, c	From 2,5 to 4,2 (depends on product mark)
X – STABILITY AND REACTION CAPACITY	
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.
XI – TOXICOLOGICAL INFORMATION	
Product is not hazardous for organism and relates to IV Class of Hazard (substances are moderately hazardous as in GOST 12.1.007).	
Irritation of skin	Slight irritation
Irritation of eyes	Slight irritation
Other toxicological information	Information is based on properties of raw materials. It is not proved its carcinogenic or mutagenic property.
XII – ECOLOGICAL INFORMATION	
Eco-toxicological data were not received specially for this product. The information above is based on knowledge of components and results of eco-toxicological research of analogue products.	
Acute toxicology	Product is considered non-toxic. Mineral oil does not make chronic action on water organisms under concentration less than 1mg/l. It has slow toxic effect on fish and micro flora of water pools. In water and air in the presence of other substances does not form toxic compounds.



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Movement	Product is not mixed with water. Under penetration in soil it is absorbed with its particles.
Stability	Product is not fast bio-degradable. Basic components are bio-degradable, but product has non bio-degradable substances.
Bio-accumulation	Some components can accumulate in alive organisms.
Other impacts	It is not supposed a possibility of destruction of ozone layer and influence on global warming.
Protection of environment is provided under production with hermetically sealed technical equipment. Liquid and solid wastes are absent.	

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.

XIV – INFORMATION AT TRANSPORTATIONS (SHIPMENT)

Properties of transportation UN number Hazard class ADR/RID (Road transport) IMDG (Sea transport) IATA (Air transport)	It is not classified as a hazardous load. N/A N/A It is not subjected to norm ADR/RID It is not subjected to technical conditions IMDG It is not subjected to norms of "IATA Dangerous Goods Regulation (DGR)" edition 60 th , 2019 Product can be transported with any transport.
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XV – NATIONAL AND INTERNATIONAL LAGISLATION

Laws of Russian Federation:
 "About technical regulation";
 "About environmental safety";
 "About sanitary-epidemiological well-being of the population".
 Under the international conventions and agreements it is not subjected.

XVI – ADDITIONAL INFORMATION

- Contents and form of the given document corresponds to requirements:
- GOST 30333-2007 "Passport of safety of chemical production. General requirements".
 - GOST 12.1.007-76 « Harmful substances. Classification and general safety requirements".
 - GOST 12.1.005-88 «General sanitary-epidemiological requirements to air of working zone".
 - 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".
 - ГОСТ 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.

Data contains in the given document have to be opened to any potential users of this product.

Utilization recommendations:

This product is applied and used as compound for sealing of threaded connections as specified in instruction on package for sealing of threaded connections.

Data: Abbreviation: N/A = was not identified;
 N/D = is not determined.

For getting additional information about product, contact Sales Department of VMPAUTO LLC
 (Tel/Fax: +7 (812) 601 05 59.

