



MATERIAL SAFETY DATA SHEET


Graphite grease

Date: 20.05.2019

I – IDENTIFICATION OF THE PRODUCT AND COMPANY

Trade Name	Graphite grease in aerosol
Purpose	Lubricating of cranes telescopic booms, loaders, chains, for protection of steel cables, open gears, leaf spring.
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

Hazard Indication	The greases should be marked according to «EU General Directive of classification of dangerous substances»  F+ flammable
Hazard for health	Product is safety packed in hermetic aerosol bottle. Dangerous influence to human can appear if application does not conform instruction of application and if aerosol bottle was damaged by overheating or mechanical impact.

III – COMPOSITION

Chemical composition	Product is a composition of:			
	Component	Identification	Hazard Identification	Content, %
	Propan	CAS: 74-98-6		10-15
	Butane	CAS: 106-97-8		15-20
	Graphite	CAS: 231-955-3		20-35

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	Carbon dioxide and powder fire extinguishers.
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Special hazard	Risk is not identified.
Prohibited means	carbonic-acid gas, monoxide carbon
Means of individual protection	Protective suit, respirator, isolated gas mask.
VI- MEASURES OF PREVENTING AND LIQUIDATION OF ACCIDENTS AND EMERGENCES	
In case of definition that one or more bottles are non tight it is needed to delete defected bottles on open space. In case of gas leaks protect anatomical airways. After gas leak reclaim bottles.	
VII- STORAGE REGULATIONS OF CHEMICAL PRODUCTION AND ITS TREATMENT UNDER HANDLING OPERATIONS	
General safety rules	Under normal use of the product is stable and does not require special protective equipment. Do not use near fire and hot surfaces. Do not smoke
Handling	It is not necessary under normal use.
Storage	Keep away from fire and sunlight
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 the product preparation, product is stable and it doesn't require special protective equipment. Preparation of the product 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 – PHISICAL AND CHEMICAL PROPERTIES	
Physical condition	Aerosol grease
Color	Dark gray liquid
Smell	Not sharp smell
Melting point	Not identified
Boiling point	Not identified
Colloid stability, % mass of separated oil, %	10
Flammability	flammable
Self-flammability	Not self-flammable
Explosion hazards	The creation of explosion substances with air is possible during usage
Explosion limits	- lower 1,8% - upper 8,4%
Solubility	Not soluble
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 and alcali
Hazardous products of decomposition	Under normal storage conditions, formation of hazardous products is not supposed.
XI – TOXICOLOGICAL INFORMATION	



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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.
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.
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XIV – INFORMATION AT TRANSPORTATIONS (SHIPMENT)

ADR/RID (Road transport)	ADR/RID: 2 5F Gases UN: 1950 Cargo identification: 1950 Aerosol
IMDG (Sea transport)	IMDG: 2 1 UN: 1950 2.1 EMS: F-D, S-U
IATA (Air transport)	ICAO/IATA: 2 1 UN: 1950 2.1
Technical name: AEROSOLS	

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.
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XVI – ADDITIONAL INFORMATION



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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. ГOCT 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.