**Material Safety Data Sheet**

|  |  |
| --- | --- |
| **1** | **Product name. Company information**  |

Material name Lubricant for automatic transmission ATF III

Synonyms No synonyms

Manufacturer (Supplier) “JV YUKOIL” LLC

Address 69084, Ukraine, Zaporizhzhia City, 3a Bazova Str.

Telephone/fax +38 061 717 11 40 from 8.00 till 17.00 (Kyiv time)

Telephone for extra consultation +38 0612 67 48 15

|  |  |
| --- | --- |
| **2** | **Formulation of the substance or the material**  |

Formulation of the material Mixture of mineral base oils of different viscosity with additives

Class of hazard 4 (low hazard)

under GOST 12.1.007-76

**Hazard sign**

## CAS number Content Concentration, % Hazard sign

or other code R-proposals

74869-22-0 Mixture of mineral oils >90 no marking

265-156-6 Hydro purified light 20 – 29,9 Xn

 distillates (naphthenic)

266-582-5 1- (tret-dodezyltio) propane- 1 – 4,9 N Xi

 -2-ol R43 R50/53

No marking Tiophen, tetrahydro-1,1 1 - 4,9 N

 -dioxide 3 – (C9-11- R51/53

 isolalkyloxy) derrivates,

 C10-nourished

263-177-5 Ethanol, 2,2’-imino bis- 0,1 – 0,9 C N

 N-fatty alkyl derrivates R22 R34 R43 R50

209-909-9 O, O, O-triphenyl 0,1 – 0,9 Xn

 phosphorotioat R62 R63

203-625-9 Toluol 0,1 – 0,9 F Xn

 R11 R38 R48/20 R63

 R65 R67

265-191-7 Alifatic naftha (naphthenic) 0,1 – 0,9 N Xn

 middle solvent R10 R38 R51/R53 R65

248-248-0 1H-imidazol-1-ethanol, 0,1 – 0,9 C N

 2-(hepthadecenyl)-4,5-dihydro R22 R34 R43 R50/R53

|  |  |
| --- | --- |
| **3** | **Hazard Identification** |

Unsafe feature of the material May be hazardous for the environment and living organisms in case of misuse or spill due to the limited biodegradability.

Exposure routes on the organism By inhalation of the material, influence on the skin, influence on the conjunctiva, absorption through the food.

|  |  |
| --- | --- |
| **4** | **First aid measures** |

By inhalation Under the temperature of the environment, ATF III does not show damage effect on the respiratory organs due to the low-violated elements. It may be dangerous for breathing passages only in case, when it acts as oil spray or hot vaporization. The injured person should be brought to the fresh air.

By the influence on the skin After the contact of the lubricant with the skin, it is necessary to wash the place of contact with water and soap. Organic solvents must not be used for washing, such as kerosene, benzene, light distillates. Clothes, polluted with lubricant, should be get off immediately, it can be reused only after washing. Shoes and other leather items, soaked with lubricant, should be thrown out. If the irritation on the skin does not disappear, seek medical attention.

By the influence on the conjunctiva After contact with the lubricant, the eyes should be washed with plenty of water. In case of irritation – seek for medical attention.

By absorption through the food Do not induce vomiting, it may cause penetration of the lubricant into the breathing passages. Drink two glasses of water and seek for medical attention immediately.

|  |  |
| --- | --- |
| **5** | **Fire safety measures and devices** |

Fire temperature In the open cup over 175 ºС.

Auto ignition temperature Undefined

Agents, necessary for extinction Fine diffused water, aspirated foam, powders of В and АВС class, agents of aerosol extinction.

Forbidden agents of extinction Forbidden agents of extinction are not defined.

Hazard caused by the material Possibility of formation of toxic vapors, gases or vapors during burning.

Personal safety devices Due to high temperature during fire, all safety devices, used by the subdivision of emergency reacting, should be applied.

Specification for fire extinction No specification.

|  |  |
| --- | --- |
| **6** | **Prevention measures during the Emergency situation** |

General recommendations Combined extract and input ventilation of premises, usage of fire and explosion protective and hermetic equipment. Avoid overheating of the equipment.

Handling and storage

recommendations No special handling precautions required. The lubricant is stored at the environmental temperature, away from the sources of heat, ignition sources, direct sunlight and atmospheric precipitations. It should be stored in closed, hermetically sealed container.

Recommendation for the Hermetically sealed equipment, ventilation of work spaces

safety of staff

Recommendation on

environmental protection Avoid the transfer of the lubricant into water or atmosphere

Recommendation on transportation Goods are not dangerous

Necessary actions of staff

during the emergency situations Remove the staff, not involved into the liquidation, from the dangerous zone. Apply personal safety devices. Eliminate the sources of fire. Act in accordance with the emergency response plan.

Methods of emergency recovery Prevent the leakage of lubricant immediately. Collect the lubricant for recycling or recovery with the help of pump or other available equipment. Ventilate the premises, in case the leakage occurred in small premises or bad-ventilated premises.

|  |  |
| --- | --- |
| **7** | **Handling and storage** |

Protection measures during

the operation with the material Manufacturing facilities should be equipped with combined extract and input ventilation. Apply the protection means for skin and eyes. It is forbidden to perform welding, heating, cutting, mechanic operation inside and metal basin enclosed, containers, with lubricant or its remains.

Conditions of safety storage Lubricant is stored at the environmental temperature, away from the sources of heat, ignition sources, direct sunlight and atmospheric precipitations. It should be stored in closed, hermetically sealed container. The labor protection and fire safety rules should be applied during the handling and storage of oil.

Materials, recommended for

containers and packing Metal barrels, metal and plastic basket, cylinders, cups, special container

Self-life of the material Three years from the date of manufacture.

Additional requirements for storage Special precautions are not required during the storage.

|  |  |
| --- | --- |
| **8** | **User safety rules and measures**  |

Characteristics of operating place

entitled to compulsory control MAC (maximum allowable concentration) of the aerosol of mineral petroleum oil – 5 mg/m3.

 MAC of vapor hydrocarbons С1-С10 – 300 mg/m3.

Measures of content of dangerous

materials in allowable concentration Combined extract and input ventilation and hermitic sealing of technical equipment

Protective means for staff:

General recommendations Ventilation of working spaces; provide with fire-exhausting means

Protection of breathing passages It is not required special protection under normal conditions. In case of increasing of MAC and formation of oil spray, it is necessary to apply the measures of breathing organs protection, recommended for petroleum products.

Eyes protection Safety opened glasses. In case of risk of spill and aerosol formation, it is recommended to use chemical closed glasses.

Hands protection Combined oil-resistant gloves or mittens.

Protective clothes Work clothes for protection from the oil products, leather shoes.

|  |  |
| --- | --- |
| **9** | **Physical and chemical properties.** |

Physical condition of the material Homogeneous oily transparent fluid of light-yellow or brown color.

at 20 ºС temperature

Odor Faint.

рН of aqueous solution The determination was not carried out.

Boiling temperature The determination was not carried out.

Fusion temperature The determination was not carried out.

Flash temperature In the open cup over 175 ºС.

Auto ignition temperature The determination was not carried out.

Kinematic viscosity at t 100°C 7,5±5 sSt (mm2/s)

Density at t 20°C No more than 890 kg/m3

Vapor pressure The determination was not carried out.

Dissolvability Water-insoluble, soluble in most organic solvents.

|  |  |
| --- | --- |
| **10** | **Stability and reactivity** |

Stability The product is stable under the normal and average temperatures and pressures.

Reactivity The reaction is possible with strong oxidants.

Polymerization Does not occur.

Thermal destruction Smoke, carbon oxides, sulfur oxides, hydrocarbon, products of incomplete combustion.

|  |  |
| --- | --- |
| **11** | **Toxic property** |

Effect on eyes Neutral; possibility of slight eyes irritation.

Effect on skin Neutral; possibility of slight skin irritation, redness, skin dryness. During long-term influence on the skin and due to the absence of compliance with the requirements of labour protection; dermatologic symptoms may occur. It is dangerous, when the lubricant gets into hypodermic adipose tissue, under pressure, through the skin.

Effect on the breathing passages Effect of the lubricant is neutral in environment due to its low vaporization. There is a possibility of breathing passages irritation, under the heating of lubricant to the high temperatures, with formation of oil spray and aerosol.

Effect on ingestion There may occur acute pneumologic condition under high doses.

Additional toxic details Lubricant contains oil products, which are considered to be well cleaned and are not considered as carcinogenic according to the information of the International Agency for Research on Cancer (IARC). All lubricants contained in this product contain less than 3% of extractable, in accordance with the test IP 346. On the basis of database of similar products, the allowable dose which does not cause the changes is 5 g/kg of body, through the food or skin.

|  |  |
| --- | --- |
| **12** | **Environmental impact**  |

Mobility The determination was not carried out.

Tendency to degradation Tendency to degradation is limited and depends on conditions under which the biodegradation occurs.

Bioaccumulative potential Bioaccumulation coefficient for the lubricant (BCF) is not defined. The researches have shown insignificant coefficient of BCF for such products, due to low water solubility.

Toxicity Insignificant water solubility of the lubricant does not cause acute toxicity of the living organisms in aquatic medium. The formation of the layer of oil on water can cause direct physical influence on the organisms and can cause changes of oxygen content in the water due to the absence of direct contact of the air with water.

|  |  |
| --- | --- |
| **13** | **Recycling and waste disposal (residue disposal)**  |

Precautions Refer to Section 7 and 8 of the Safety Data Sheet.

Waste removal, disposal Improper storage of the lubricant may cause the loss of quality and thereby eliminates the possibility of its further use. Products waste is dangerous for the environment. The handling of watse is under the provision of the local bodies of legislation.

Refuse treatment of containers Containers of the lubricant can be reused for transportation of dark-oil products and fluids for metalworking, emulsols. The container can be used for different technical fluids after washing or steaming.

|  |  |
| --- | --- |
| **14** | **Principles of transportation** |

Shipping name Lubricant for automatic transmission ATF III

Type of transport Transportation by means of automobile, railway, water.

Not classified as dangerous during the transportation **–** ADR, RID, UN, IMO, IATA/ICAO

Information on Soil and water pollution is possible under violation of transportation

environment pollution principles

|  |  |
| --- | --- |
| **15** | **Information on International and National Legislation**  |

 Laws of Ukraine: “On Environmental Protection”, “On Ensuring Sanitary and Epidemiological Well-being of Population”.

 During the shipping of products, the certificate of quality is enclosed which contains the following information:

name of the manufacturer and its trademark;

 name of the product;

 date of manufacture;

 batch number;

 net weight;

 determination of a standardized document (GOST, TS (technical specification), ISS (industrial specific standard), technical agreement);

 results of conducted tests for compliance with the requirements of normative and technical documentation on the product or confirmation of compliance of the tests results with the requirements of normative and technical documentations.

 Regulatory legal acts

Notes:

 The labels are executed in accordance with dirrectives EU 1999/45/EC and 67/548EEC.

R- proposals:

R38 irritates the skin.

 R41 dangerous for eyes.

R51/53 – toxic for aquatic organisms, can cause long-term consequences.

|  |  |
| --- | --- |
| **16** | **Additional Information** |

 Provided information is the supplement to the technical specifications of ATF III Lubricant, but does not substitute them.

 The information presented herein is collected from the sources which are reliable and accurate according to the company “JV YUKOIL”. Nevertheless, the company “JV YUKOIL” does not give any warranties, whether express or implied, regarding condition and suitability of the product for the specific purposes, in aspects relating to the accuracy of the information and data obtained on its basis. The company “JV YUKOIL” shall not bear any responsibility for any injuries which may be caused to the receiver or the third parties, as well as any damage, caused to somebody’s property; the receiver shall assume all risks.