

## 2020 MOTOR OIL SAVER 300ml **Liqui Moly GmbH**

Chemwatch: 5465-28 Version No: 3.1.6.8

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 02/06/2021 Print Date: 27/07/2021 S.GHS.USA.EN

#### **SECTION 1 Identification**

#### **Product Identifier**

Product name	2020 MOTOR OIL SAVER 300ml	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Liqui Moly GmbH
Address	Jerg-Wieland-Strasse 4 Ulm D-89081 Germany
Telephone	+49 731 1420 0
Fax	+49 731 1420 82
Website	http://www.liqui-moly.com/
Email	Not Available

### Emergency phone number

· , .	
Association / Organisation	INFOTRAC
Emergency telephone numbers	+1800 535 5053 (US, Canada & Mexico)
Other emergency telephone numbers	+1 352 323 3500 (International)

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

### ChemWatch Hazard Ratings

		Min	Max	
Flammability	1			
Toxicity	1			0 = Minimum
Body Contact	1		1	1 = Low
Reactivity	1			2 = Moderate
Chronic	1			3 = High 4 = Extreme



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Eye Irritation Category 2B, Specific target organ toxicity - single exposure Category 3 (narcotic effects)

Label elements

#### Hazard pictogram(s)



Warning Signal word

Hazard statement(s)	
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.

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#### Hazard(s) not otherwise classified

Not Applicable

#### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

• • • • • • • • • • • • • • • • • • • •	•
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
64742-54-7.	>60	paraffinic distillate, heavy, hydrotreated (severe)
64742-65-0.	<20	paraffinic distillate, heavy, solvent-dewaxed (severe)
64742-56-9.	<20	paraffinic distillate, light, solvent-dewaxed (severe)
112-07-2	1-10	ethylene glycol monobutyl ether acetate

### **SECTION 4 First-aid measures**

#### Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

### Most important symptoms and effects, both acute and delayed

See Section 11

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For petroleum distillates

- In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.
- Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.

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- Positive pressure ventilation may be necessary.
- Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment. Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators

BP America Product Safety & Toxicology Department

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

#### **SECTION 5 Fire-fighting measures**

#### **Extinguishing media**

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Special protective equipment and precautions for fire-fighters

# Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus
- Prevent, by any means available, spillage from entering drains or water course.
- ▶ Use water delivered as a fine spray to control fire and cool adjacent area

#### Combustible.

- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).

#### Combustion products include: carbon dioxide (CO2)

#### Fire/Explosion Hazard

phosphorus oxides (POx)

sulfur oxides (SOx)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes

CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.

Foaming may cause overflow of containers and may result in possible fire.

#### **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

	• Rem
Minor Spills	▶ Clea
	► Avoi
	► Conf

Slippery when spilt nove all ignition sources

- an up all spills immediately.
- oid breathing vapours and contact with skin and eyes.
- ntrol personal contact with the substance, by using protective equipment.

## Slippery when spilt

#### Moderate hazard. **Major Spills**

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear breathing apparatus plus protective gloves

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

### Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- ▶ Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its

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diameter, then <= 7 m/sec). Avoid splash filling.

Avoid all personal contact, including inhalation.

▶ Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

Store in original containers.

Keep containers securely sealed.

 $\mbox{\Large \sl h}$  No smoking, naked lights or ignition sources.

Store in a cool, dry, well-ventilated area.

#### Conditions for safe storage, including any incompatibilities

Suitable container

Other information

- ► Metal can or drum
- Packaging as recommended by manufacturer.
- ▶ Check all containers are clearly labelled and free from leaks.

Storage incompatibility

CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.

Avoid reaction with oxidising agents

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

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#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, heavy, hydrotreated (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US OSHA Permissible Exposure Limits (PELs) Table Z-1	paraffinic distillate, heavy, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, heavy, solvent-dewaxed (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US OSHA Permissible Exposure Limits (PELs) Table Z-1	paraffinic distillate, light, solvent-dewaxed (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffinic distillate, light, solvent-dewaxed (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol monobutyl ether acetate	2-Butoxyethanol acetate	5 ppm / 33 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ethylene glycol monobutyl ether acetate	2-Butoxyethyl acetate	20 ppm	Not Available	Not Available	A3

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
paraffinic distillate, heavy, hydrotreated (severe)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, heavy, solvent-dewaxed (severe)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, light, solvent- dewaxed (severe)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
ethylene glycol monobutyl ether acetate	15 ppm	35 ppm	210 ppm

Ingredient	Original IDLH	Revised IDLH
paraffinic distillate, heavy, hydrotreated (severe)	2,500 mg/m3	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	2,500 mg/m3	Not Available
paraffinic distillate, light, solvent- dewaxed (severe)	2,500 mg/m3	Not Available
ethylene glycol monobutyl ether acetate	Not Available	Not Available

### **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically

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"adds" and "removes" air in the work environment. Personal protection ► Safety glasses with side shields Chemical goggles Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. Skin protection See Hand protection below ▶ Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance Hands/feet protection and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. See Other protection below **Body protection** Overalls. P.V.C apron. Other protection Barrier cream. Skin cleansing cream

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	CPI
NAT+NEOPR+NITRILE	С

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Orange liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	0.899
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	133.81
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	100	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available

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Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

Chronic

Inhaled	Inhalation hazard is increased at higher temperatures.  Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.  Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.  Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.  Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.
Ingestion	Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.  Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.  Open cuts, abraded or irritated skin should not be exposed to this material  The material may accentuate any pre-existing dermatitis condition  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin

Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.
	Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face

prior to the use of the material and ensure that any external damage is suitably protected.

ce and warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss

and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Repeated application of mildly hydrotreated oils (principally paraffinic), to mouse skin, induced skin tumours; no tumours were induced with

	severely flydrotreated oils.		
2020 MOTOR OIL SAVER	TOXICITY	IRRITATION	
300ml	Not Available	Not Available	
	TOXICITY	IRRITATION	
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
hydrotreated (severe)	Inhalation(Rat) LC50; 2.18 mg/l4h <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral(Rat) LD50; >5000 mg/kg <sup>[2]</sup>		
	TOXICITY	IRRITATION	
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
solvent-dewaxed (severe)	Inhalation(Rat) LC50; 2.18 mg/l4h <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral(Rat) LD50; >5000 mg/kg <sup>[2]</sup>		
	TOXICITY	IRRITATION	
		741	
paraffinic distillate, light.	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating)[1]	
paraffinic distillate, light, solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50; 2.18 mg/l4h <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	

Oral(Rat) LD50; >5000 mg/kg[2]

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	l	
	TOXICITY	IRRITATION
ethylene glycol monobutyl ether acetate	Dermal (rabbit) LD50: ~1480 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg/24hr - mild
cirici acciate	Oral(Rat) LD50; 1600 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg - mild
Legend:	Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwis specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE)	n-paraffins is inversely proportional to the carbon chain le be present in mineral oil, n-paraffins may be absorbed to The major classes of hydrocarbons are well absorbed into	the gastrointestinal tract in various species. In many cases, the hydrophobic diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	conjunctivitis.  The material may cause skin irritation after prolonged or r vesicles, scaling and thickening of the skin.  For ethylene glycol:  Ethylene glycol is quickly and extensively absorbed through through the airways; absorption through skin is apparently metabolized by alcohol dehydrogenase to form glycoaldel For ethylene glycol monoalkyl ethers and their acetates (ETypical members of this category are ethylene glycol prop (EGHE) and their acetates.  EGMAEs are substrates for alcohol dehydrogenase isozy (which are transient metabolites). Further, rapid conversice the predominant urinary metabolites of mono substituted of Acute Toxicity: Oral LD50 values in rats for all category with decreasing molecular weight. Four to six hour acute in the skin in the s	ylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether me ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes on of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which al
PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)	The potential toxicity of a specific distillate base oil is inve  The adverse effects of these materials are assoc  The levels of the undesirable components are in  Distillate base oils receiving the same degree or  The potential toxicity of residual base oils is inder  The reproductive and developmental toxicity of the Unrefined & mildly refined distillate base oils contain the imolecules and have shown the highest potential cancerare produced from unrefined and mildly refined oils by rer refined base oils, the highly and severely refined distillate low mammalian toxicity. Testing of residual oils for mutatic belief that these materials lack biologically active compon Toxicity testing has consistently shown that lubricating base. For highly and severely refined distillate base oils:  In animal studies, the acute, oral, semilethal dose is >5g/l	rersely related to the degree of processing; extent of processing will have similar toxicities; bendent of the degree of processing the oil receives. The distribution of the degree of processing the oil receives. The distribution of hydrocarbon ausing and mutation-causing activities. Highly and severely refined distillate base oils noving or transforming undesirable components. In comparison to unrefined and mildly base oils have a smaller range of hydrocarbon molecules and have demonstrated ver on-causing and cancer-causing potential has shown negative results, supporting the ents or the components are largely non-bioavailable due to their molecular size. See oils have low acute toxicities.  The materials have varied from "non-irritating" to "moderately irritating" when tested for negative.
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED	2.135.135 S. Galoriogeniony may be madequate of illimited	

HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, LIGHT, SOLVENT-DEWAXED (SEVERE)

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	X
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	X

Legen

🗶 – Data either not available or does not fill the criteria for classification

— Data available to make classification

### **SECTION 12 Ecological information**

## Toxicity

0000 MOTOR OIL 04VER	Endpoint	Test Duration (hr)	Species	Value	Source
2020 MOTOR OIL SAVER 300ml	Not Available	Not Available	Not Available	Not Available	Not Available

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	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
paraffinic distillate, heavy, hydrotreated (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
nyarotreatea (severe)	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
paraffinic distillate, heavy, solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
Solveni-uewaxeu (Severe)	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, light, solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
solvent-dewaxed (severe)	EC50	48h	Crustacea	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
ethylene glycol monobutyl ether acetate	LC50	96h	Fish	>20<40mg/l	2
	EC50	72h	Algae or other aquatic plants	>500mg/l	1
Cirier acetate	EC50	48h	Crustacea	37mg/l	1
	EC10(ECx)	48h	Crustacea	6.9mg/l	2

\_egend

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether acetate	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether acetate	LOW (BCF = 3.2)

### Mobility in soil

modificy in 30h	
Ingredient	Mobility
ethylene glycol monobutyl ether acetate	LOW (KOC = 10)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

#### Product / Packaging disposal

- ► Reduction ► Reuse
- ► Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ▶ Consult State Land Waste Authority for disposal.
- ► Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 Transport information**

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#### Labels Required

**Marine Pollutant** 

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
paraffinic distillate, heavy, hydrotreated (severe)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available
paraffinic distillate, light, solvent- dewaxed (severe)	Not Available
ethylene glycol monobutyl ether acetate	Not Available

#### Transport in bulk in accordance with the ICG Code

F	
Product name	Ship Type
paraffinic distillate, heavy, hydrotreated (severe)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe)	Not Available
paraffinic distillate, light, solvent- dewaxed (severe)	Not Available
ethylene glycol monobutyl ether acetate	Not Available

#### **SECTION 15 Regulatory information**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

### paraffinic distillate, heavy, hydrotreated (severe) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

### paraffinic distillate, heavy, solvent-dewaxed (severe) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### paraffinic distillate, light, solvent-dewaxed (severe) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### ethylene glycol monobutyl ether acetate is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### **Federal Regulations**

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)		No
	Gas under pressure	No
	Explosive	No
	Self-heating	No

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Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

## US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

### State Regulations

### US. California Proposition 65

None Reported

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (paraffinic distillate, heavy, hydrotreated (severe); paraffinic distillate, heavy, solvent-dewaxed (severe); paraffinic distillate, light, solvent-dewaxed (severe); ethylene glycol monobutyl ether acetate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (paraffinic distillate, light, solvent-dewaxed (severe))
orea - KECI Yes	
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (paraffinic distillate, light, solvent-dewaxed (severe))
Vietnam - NCI	Yes
Russia - FBEPH	No (paraffinic distillate, light, solvent-dewaxed (severe))
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 Other information**

Revision Date	02/06/2021
Initial Date	29/04/2021

### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1.4.2	02/06/2021	Acute Health (inhaled), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, Environmental, First Aid (inhaled), First Aid (swallowed), Handling Procedure, Ingredients, Synonyms
3.1.4.3	04/06/2021	Template Change
3.1.4.4	05/06/2021	Template Change
3.1.4.5	09/06/2021	Template Change
3.1.4.6	11/06/2021	Template Change
3.1.4.7	15/06/2021	Template Change

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#### 2020 MOTOR OIL SAVER 300ml

Version	Date of Update	Sections Updated
3.1.4.8	05/07/2021	Template Change
3.1.5.8	14/07/2021	Regulation Change
3.1.6.8	15/07/2021	Regulation Change

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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