

# 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

Liqui Moly GmbH

Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019 Print Date: 29/06/2020 S.GHS.CAN.EN

Chemwatch: 73-97437

Version No: 3.1.1.1 Safety Data Sheet according to WHMIS 2015 requirements

# **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L
Synonyms	Not Available
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

# NFPA 704 diamond



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)

# CANADIAN WHMIS SYMBOLS



Classification

Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects)

# Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

# Hazard statement(s)

Chemwatch: **73-97437** Page **2** of **9** 

Version No: **3.1.1.1** 

22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

Issue Date: 01/11/2019 Print Date: 29/06/2020

H317	May cause an allergic skin reaction.	
H336	May cause drowsiness or dizziness.	

### Physical and Health hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) Prevention

P271	Jse only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

# Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

### 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.	30-60	paraffinic distillate, heavy, hydrotreated (severe)
64741-88-4.	10-30	paraffinic distillate, heavy, solvent-refined (severe)
114959-46-5	<1	mono-C14-18-alkylsalicylic acid. calcium salts

# **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <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> <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> </ul>

# 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.
- 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

Chemwatch: 73-97437 Page 3 of 9

Version No: 3.1.1.1 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L Issue Date: 01/11/2019 Print Date: 29/06/2020

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**

- Foam
- 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

# ecial protective equipment and precautions for fire-fighters

Special protective equipment and precautions for fire-fighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>phosphorus oxides (POx)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> <li>CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.</li> <li>Foaming may cause overflow of containers and may result in possible fire.</li> </ul>	

# **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

Minor Spills	Slippery when spilt.  • Remove all ignition sources.  • Clean up all spills immediately.  • Avoid breathing vapours and contact with skin and eyes.  • Control personal contact with the substance, by using protective equipment.
Major Spills	Slippery when spilt.  Moderate hazard.  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

▶ DO NOT allow clothing wet with ma	aterial to stay in contact with skin
-------------------------------------	--------------------------------------

- ▶ 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 diameter, then <= 7 m/sec).

# Safe handling

- 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.

Chemwatch: **73-97437** Page **4** of **9** 

Version No: 3.1.1.1 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

Issue Date: **01/11/2019**Print Date: **29/06/2020** 

Other information

- ► Store in original containers.
- Keep containers securely sealed.
- ▶ No smoking, naked lights or ignition sources.
- ► Store in a cool, dry, well-ventilated area.

# Conditions for safe storage, including any incompatibilities

Suitable container

- ► 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**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist - mineral	5 mg/m3	10 mg/m3	Not Available	TLV Basis: lung. As sampled by method that does not collect vapor.
Canada - Alberta Occupational Exposure Limits	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	paraffinic distillate, heavy, hydrotreated (severe)	Not Available	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	paraffinic distillate, heavy, hydrotreated (severe)	Mineral oil (mist)	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - British Columbia Occupational Exposure Limits	paraffinic distillate, heavy, hydrotreated (severe)	Oil mist - mineral, severely refined	1 mg/m3	Not Available	Not Available	Not Available
Canada - Prince Edward Island Occupational Exposure Limits	paraffinic distillate, heavy, hydrotreated (severe)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr

# EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
paraffinic distillate, heavy, hydrotreated (severe)	Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7	140 mg/m3	1,500 mg/m3	8,900 mg/m3

Ingredient	Original IDLH	Revised IDLH
paraffinic distillate, heavy, hydrotreated (severe)	2,500 mg/m3	Not Available
paraffinic distillate, heavy, solvent-refined (severe)	Not Available	Not Available
mono-C14-18-alkylsalicylic acid, calcium salts	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 "adds" and "removes" air in the work environment.

Personal protection









Chemwatch: 73-97437 Page 5 of 9

Issue Date: 01/11/2019 Version No: 3.1.1.1 Print Date: 29/06/2020 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

#### 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 ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber NOTE: Fig. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. Hands/feet protection 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 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. **Body protection** See Other protection below ▶ Overalls. P.V.C apron. Other protection Barrier cream. Skin cleansing cream.

### Respiratory protection

Type AK-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	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-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	Appearance Brown liquid with characteristic odour; not miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
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)	-51	Viscosity (cSt)	43, 8.5 @ 100C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
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 (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Chemwatch: 73-97437 Page 6 of 9

Issue Date: 01/11/2019 Version No: 3.1.1.1 Print Date: 29/06/2020 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

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

### **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

Inhaled	co-ordination, and vertigo.  Inhalation hazard is increased at higher temperatures.  Inhaling high concentrations of mixed hydrocarbons can ca (C2-C12) hydrocarbons can irritate mucous membranes at loss, drowsiness, tremors and stupor.  Central nervous system (CNS) depression may include ge	s. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of ause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite neral discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic gress to unconsciousness. Serious poisonings may result in respiratory depression and and may produce chemical inflammation of the lungs.
Ingestion	Ingestion may result in nausea, abdominal irritation, pain a	and vomiting
Skin Contact	dermatitis. The material is unlikely to produce an irritant de Open cuts, abraded or irritated skin should not be exposed The material may accentuate any pre-existing dermatitis or	I to this material ondition rational state of the state o
Eye	Although the liquid is not thought to be an irritant (as class characterised by tearing or conjunctival redness (as with w	ified by EC Directives), direct contact with the eye may produce transient discomfort rindburn).
Chronic	Oil may contact the skin or be inhaled. Extended exposure on the soles of the feet.  Constant or exposure over long periods to mixed hydrocar	sitisation reaction in some persons compared to the general population.  can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts  bons may produce stupor with dizziness, weakness and visual disturbance, weight loss  exposure may result in drying and cracking and redness of the skin.
22044, 22046, 22048, 22049,	TOVIOITY	IRRITATION
22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L	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: >5.3 mg/l4 h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >2000 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-refined (severe)	Inhalation (rat) LC50: >5.3 mg/l4 h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	
	TOXICITY	IRRITATION
mono-C14-18-alkylsalicylic acid, calcium salts	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
aora, calcium salts	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>
Legend:		ces - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise

PARAFFINIC DISTILLATE,
HEAVY, SOLVENT-REFINED
(SEVERE)

No significant acute toxicological data identified in literature search.

# MONO-C14-18-ALKYLSALICYLIC ACID, **CALCIUM SALTS**

Oral and dermal LD50 levels for were very high, indicating essentially no toxicity. Subchronic toxicity: A repeated-dose study was conducted. After administration to rats, the liver and kidneys were mildly affected at the highest dose. However, since the significant effects were both mild and only observed at highest dose the materials possesses a low order of repeated-dose toxicity to mammals. Exposure did not impact fertility or reproduction in rats. Additionally, this material did not cause any developmental effects in offspring, thus indicating the material does not cause reproductive or developmental toxicity. Bacterial reverse mutation assay data were negative, both with and without metabolic activation. An in vitro chromosomal aberration assay produced negative data for clastogenicity, both with and without metabolic activation \* HPV Challenge Program for benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivatives, calcium salts 2006

#### PARAFFINIC DISTILLATE, **HEAVY, HYDROTREATED** (SEVERE) & PARAFFINIC DISTILLATE, HEAVY,

The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since:

- The adverse effects of these materials are associated with undesirable components, and
  - The levels of the undesirable components are inversely related to the degree of processing;

Chemwatch: **73-97437** Page **7** of **9** 

Version No: 3.1.1.1

SOLVENT-REFINED (SEVERE)

# 22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

Issue Date: **01/11/2019**Print Date: **29/06/2020** 

- Distillate base oils receiving the same degree or extent of processing will have similar toxicities;
- The potential toxicity of residual base oils is independent of the degree of processing the oil receives.
- The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.

Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities.

For highly and severely refined distillate base oils:

In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

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

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

22044, 22046, 22048, 22049,	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>100mg/L	2
paraffinic distillate, heavy, hydrotreated (severe)	EC50	48	Crustacea	>10-mg/L	2
nyarotreated (severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>100mg/L	2
paraffinic distillate, heavy, solvent-refined (severe)	EC50	48	Crustacea	>10-mg/L	2
Solvent-Tenned (Severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>1-mg/L	2
mono-C14-18-alkylsalicylic acid, calcium salts	EC50	48	Crustacea	>1-mg/L	2
acia, caiciani saits	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	NOEC	48	Crustacea	1-mg/L	2
Legend:	V3.12 (QSAR) -	Aquatic Toxicity Data (Estimated) 4. US	Registered Substances - Ecotoxicological Informa EPA, Ecotox database - Aquatic Toxicity Data 5. E apan) - Bioconcentration Data 8. Vendor Data		

# DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

# Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

# Mobility in soil

Ingredient	Mobility		
	No Data available for all ingredients		

Version No: **3.1.1.1** 

22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

Issue Date: 01/11/2019 Print Date: 29/06/2020

# **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- ▶ 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.
- Product / Packaging disposal

  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**

## **Labels Required**

**Marine Pollutant** 

NO

Land transport (TDG): 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

### **SECTION 15 REGULATORY INFORMATION**

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

# PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Chemical Footprint Project - Chemicals of High Concern List

Canada Domestic Substances List (DSL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Chemical Footprint Project - Chemicals of High Concern List

Canada Domestic Substances List (DSL)

# MONO-C14-18-ALKYLSALICYLIC ACID, CALCIUM SALTS IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

# **National Inventory Status**

National Inventory	Status			
Australia - AICS	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (paraffinic distillate, heavy, hydrotreated (severe); paraffinic distillate, heavy, solvent-refined (severe); mono-C14-18-alkylsalicylic acid, calcium salts)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	No (mono-C14-18-alkylsalicylic acid, calcium salts)			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (mono-C14-18-alkylsalicylic acid, calcium salts)			
Vietnam - NCI	No (mono-C14-18-alkylsalicylic acid, calcium salts)			
Russia - ARIPS	No (mono-C14-18-alkylsalicylic acid, calcium salts)			
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	01/11/2019
Initial Date	15/10/2019

Chemwatch: **73-97437** Page **9** of **9** 

Version No: **3.1.1.1** 

22044, 22046, 22048, 22049, 22140 TOP TEC 6600 0W-20 1L, 5L, 20L, 205L, 1000L

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
2.1.1.1	15/10/2019	Ingredients
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### 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

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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.

Issue Date: 01/11/2019

Print Date: 29/06/2020