

# 2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Liqui Moly GmbH

Chemwatch Hazard Alert Code: 2

Issue Date: **05/05/2020** Print Date: **06/05/2020** S.GHS.CAN.EN

Chemwatch: **5395-89** Version No: **2.1.1.1** 

Safety Data Sheet according to WHMIS 2015 requirements

### **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Relevant identified uses Use acco

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	y-Wieland-Strasse 4 Ulm D-89081 Germany		
Telephone	+49 731 1420 0		
Fax	731 1420 82		
Website	z://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, Chronic Aquatic Hazard Category 3

### Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

Chemwatch: **5395-89** Page **2** of **9** 

Version No: **2.1.1.1** 

### 2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: 05/05/2020 Print Date: 06/05/2020

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

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

Not Applicable

### Precautionary statement(s) Prevention

P280	ear protective gloves/protective clothing/eye protection/face protection.	
P261	breathing mist/vapours/spray.	
P273	oid release to the environment.	
P272	ontaminated work clothing should not be allowed out of the workplace.	

### Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).	
P302+P352	N SKIN: Wash with plenty of water and soap.	
P333+P313	kin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

### Precautionary statement(s) Storage

Not Applicable

### 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	
72623-87-1.	>60	lubricating oils, petroleum C20-50, hydrotreated neutral	
1190625-94-5	<2	(C14-16-18)alkylphenol	
36878-20-3	<2	nonylated diphenylamines	
93819-94-4	<1	zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	

### **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>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

Treat symptomatically.

- 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

Chemwatch: 5395-89 Page 3 of 9

Version No: 2.1.1.1

2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: 05/05/2020 Print Date: 06/05/2020

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:

#### Fire/Explosion Hazard

carbon dioxide (CO2) 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

### Minor Spills

Slippery when spilt

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**

- 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 material 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.

### 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
Jource	ingredient	Material Harrie	1 44 74	SILL	rean	140163

Chemwatch: **5395-89** Page **4** of **9** 

Version No: 2.1.1.1

2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: 05/05/2020 Print Date: 06/05/2020

Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	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	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Manitoba Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Not Available	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	lubricating oils, petroleum C20-50, hydrotreated neutral	Mineral oil (mist)	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - Northwest Territories Occupational Exposure Limits (English)	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	Not Available
Canada - British Columbia Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	Oil mist - mineral, severely refined	1 mg/m3	Not Available	Not Available	Not Available
Canada - Prince Edward Island Occupational Exposure Limits	lubricating oils, petroleum C20-50, hydrotreated neutral	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
lubricating oils, petroleum	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	1,500	8,900
C20-50, hydrotreated neutral		mg/m3	mg/m3	mg/m3

Ingredient	Original IDLH	Revised IDLH
lubricating oils, petroleum C20-50, hydrotreated neutral	2,500 mg/m3	Not Available
(C14-16-18)alkylphenol	Not Available	Not Available
nonylated diphenylamines	Not Available	Not Available
zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	Not Available	Not Available

### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
(C14-16-18)alkylphenol	E	≤ 0.01 mg/m³
zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure conceptrations that are expected to protect worker health.	

### **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









# Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles.
- 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 **NOTE:**

### Hands/feet protection

- ► 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.

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

Chemwatch: 5395-89 Page 5 of 9

Version No: 2.1.1.1 2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: 05/05/2020

Print Date: 06/05/2020

	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
Other protection	► Overalls.  ► P.V.C. apron.  ► Barrier 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)	0.850
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)	-45	Viscosity (cSt)	44 @ 40C, 8.2 @ 100C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	220	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**

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**

Chemwatch: 5395-89 Page 6 of 9

Version No: 2.1.1.1 2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Inhalation hazard is increased at higher temperatures. Inhaled Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of Ingestion There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Skin Contact 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 prior to the use of the material and ensure that any external damage is suitably protected. Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort Eve characterised by tearing or conjunctival redness (as with windburn). Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Chronic This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet 2263, 2264, 20126, 22114, TOXICITY IRRITATION 22115 SPECIAL TEC F ECO Not Available Not Available 5W-20 1L, 5L, 20L, 60L, 205L IRRITATION TOXICITY Dermal (rabbit) LD50: >2000 mg/kg<sup>[2]</sup> Eye: no adverse effect observed (not irritating)<sup>[1]</sup> lubricating oils, petroleum C20-50, hydrotreated neutral Inhalation (rat) LC50: >5.3 mg/l4 h[1] Skin: no adverse effect observed (not irritating)<sup>[1]</sup> Oral (rat) LD50: >5000 mg/kg[2] IRRITATION TOXICITY (C14-16-18)alkylphenol Not Available Not Available TOXICITY IRRITATION Oral (rat) LD50: >5000 mg/kg[2] Eve: no adverse effect observed (not irritating)[1] nonylated diphenylamines Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY **IRRITATION** Eve: Severe \* dermal (rat) LD50: >5000 mg/kg<sup>[2]</sup> zinc bis[O-(6-methylheptyl & Oral (rat) LD50: >2000 mg/kg[2] Eye: adverse effect observed (irritating)<sup>[1]</sup> sec-butyl)]dithiophosphate Skin: Moderate \* Skin: adverse effect observed (irritating)[1] Leaend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 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; 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 LUBRICATING OILS. molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base PETROLEUM C20-50, oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and HYDROTREATED NEUTRAL 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 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 following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, (C14-16-18)ALKYLPHENOL involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. No significant acute toxicological data identified in literature search.

Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes

leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and

flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration.

NONYLATED DIPHENYLAMINES

Issue Date: 05/05/2020

Print Date: 06/05/2020

Version No: 2.1.1.1

### 2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: 05/05/2020 Print Date: 06/05/2020

ZINC BIS[O-(6-METHYLHEPTYL SEC-BUTYL)]DITHIOPHOSPHATE BB4 SDS (Infineum)

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Dithiophosphate alkyl esters is corrosive and toxic to the tissues on skin or oral exposure depending on its concentration. Symptoms included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure and high viscosity). It may produce reproductive, developmental and genetic toxicity on experimental animals, but no substantive data is available to establish effect on humans.

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

Legend:

★ - Data either not available or does not fill the criteria for classification

Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

2263, 2264, 20126, 22114,	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
lubricating oils, petroleum	LC50	96	Fish	>100mg/L	2
C20-50, hydrotreated neutral	EC50	48	Crustacea	>10-mg/L	2
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
(C14-16-18)alkylphenol	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>100mg/L	2
nonylated diphenylamines	EC50	48	Crustacea	51mg/L	2
	EC50	72	Algae or other aquatic plants	>100mg/L	2
	NOEC	96	Crustacea	<10mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	LC50	96	Fish	0.194mg/L	3
	EC50	48	Crustacea	5.4mg/L	2
	EC50	96	Algae or other aquatic plants	0.029mg/L	3
	NOEC	504	Crustacea	0.4mg/L	2

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or w

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	HIGH	нідн

### Bioaccumulative potential

•	
Ingredient	Bioaccumulation
zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate	HIGH (LogKOW = 6.0235)

## Mobility in soil

Ingredient Mobility
---------------------

Version No: **2.1.1.1** 

2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: **05/05/2020**Print Date: **06/05/2020** 

zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate

LOW (KOC = 3509)

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Product / Packaging disposal

- ▶ 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**

### **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.

### $\parallel$ LUBRICATING OILS, PETROLEUM C20-50, HYDROTREATED NEUTRAL 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

### (C14-16-18)ALKYLPHENOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

### NONYLATED DIPHENYLAMINES IS FOUND ON THE FOLLOWING REGULATORY LISTS

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

### ZINC BIS[O-(6-METHYLHEPTYL & SEC-BUTYL)]DITHIOPHOSPHATE 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	No ((C14-16-18)alkylphenol)
Canada - DSL	No ((C14-16-18)alkylphenol)
Canada - NDSL	No (lubricating oils, petroleum C20-50, hydrotreated neutral; (C14-16-18)alkylphenol; nonylated diphenylamines; zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate)
China - IECSC	No ((C14-16-18)alkylphenol)
Europe - EINEC / ELINCS / NLP	No ((C14-16-18)alkylphenol)
Japan - ENCS	No (lubricating oils, petroleum C20-50, hydrotreated neutral)
Korea - KECI	No ((C14-16-18)alkylphenol)
New Zealand - NZIoC	No ((C14-16-18)alkylphenol)
Philippines - PICCS	No ((C14-16-18)alkylphenol)
USA - TSCA	No ((C14-16-18)alkylphenol)
Taiwan - TCSI	No ((C14-16-18)alkylphenol)
Mexico - INSQ	No (lubricating oils, petroleum C20-50, hydrotreated neutral; (C14-16-18)alkylphenol; nonylated diphenylamines; zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate)
Vietnam - NCI	No ((C14-16-18)alkylphenol)
Russia - ARIPS	No (lubricating oils, petroleum C20-50, hydrotreated neutral; (C14-16-18)alkylphenol; zinc bis[O-(6-methylheptyl & sec-butyl)]dithiophosphate)
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)

Chemwatch: **5395-89** Page **9** of **9** 

Version No: **2.1.1.1** 

2263, 2264, 20126, 22114, 22115 SPECIAL TEC F ECO 5W-20 1L, 5L, 20L, 60L, 205L

Issue Date: **05/05/2020** Print Date: **06/05/2020** 

### **SECTION 16 OTHER INFORMATION**

#### 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.