

2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Liqui Moly GmbH

Chemwatch Hazard Alert Code: 1

Chemwatch: **49-34939** Version No: **3.1.1.1** Issue Date: **07/08/2019** Print Date: **07/08/2019**

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

S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L	
Synonyms	Not Available	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Dolovant 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	

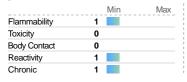
Emergency phone number

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



0 = Minimum 1 = Low 2 = Moderate 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 Chronic Aquatic Hazard Category 4

Label elements

Hazard pictogram(s) Not Applicable

SIGNAL WORD NOT APPLICABLE

Hazard statement(s)

H413 May cause long lasting harmful effects to aquatic life.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P273	Avoid release to the environment.

Issue Date: 07/08/2019 Version No: 3.1.1.1 Print Date: 07/08/2019 2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
151006-63-2	>60	1-dodecene, homopolymer, hydrogenated
64741-88-4.	10-30	paraffinic distillate, heavy, solvent-refined (severe)
68784-31-6	<2	zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate
36878-20-3	<2	nonylated diphenylamines

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 or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.	
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	
Ingestion	 Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 	

Most important symptoms and effects, both acute and delayed

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).

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 procautions for fire-fighters

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. 		
Fire/Explosion Hazard	 ▶ 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) phosphorus oxides (POx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. 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. 		

Version No: 3.1.1.1

2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Issue Date: **07/08/2019**Print Date: **07/08/2019**

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 Property Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. 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

Safe handling	 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). 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.

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

Not Available

EMERGENCY LIMITS

LINEKGENOT EINITS				
Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
1-dodecene, homopolymer, hydrogenated	Not Available		Not Available	
paraffinic distillate, heavy, solvent- refined (severe)	Not Available		Not Available	
zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate	Not Available		Not Available	
nonylated diphenylamines	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.

Page 4 of 9 Issue Date: 07/08/2019 Version No: 3.1.1.1

Print Date: 07/08/2019 2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

	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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. 	
Skin protection	See Hand protection below	
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. 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 hydiene is a key element of effective hand care.	
Body protection	See Other protection below	
Other protection	No special equipment needed when handling small quantities. OTHERWISE: Overalls. Barrier cream. Eyewash unit.	

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	AK-AUS / Class1 P2	-
up to 50	1000	-	AK-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	AK-2 P2
up to 100	10000	-	AK-3 P2
100+			Airline**

 $^{^{\}star}$ - Continuous Flow ** - Continuous-flow or positive pressure demand

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	Brown liquid with characteristic odour; not	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)	-33	Viscosity (cSt)	180.6 @ 40C, 25.1 @ 100C	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	240	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)	0	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	

Page 5 of 9 Issue Date: 07/08/2019 Version No: 3.1.1.1 Print Date: 07/08/2019 2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Solubility in water pH as a solution (1%) Not Available Immiscible Vapour density (Air = 1) Not Available VOC g/L Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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

Information on toxicological effects

Inhaled	• .	tion of the respiratory tract (as classified by EC Directives using animal models). o a minimum and that suitable control measures be used in an occupational setting.	
Ingestion	Ingestion may result in nausea, abdominal irritation, pain and vomiting		
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 prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC characterised by tearing or conjunctival redness (as with windburn).	Directives), direct contact with the eye may produce transient discomfort	
Chronic	Oil may contact the skin or be inhaled. Extended exposure can lead to of the feet.	eczema, inflammation of hair follicles, pigmentation of the face and warts on the sole	
2068, 2024, 20127, 20374, 20375	TOXICITY	IRRITATION	
SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L	Not Available	Not Available	
	TOXICITY	IRRITATION	
1-dodecene, homopolymer,	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye : Not irritating	
hydrogenated	Inhalation (rat) LC50: 0.9 mg/l4 h ^[1]	Skin : Not irritating	
	Oral (rat) LD50: >2000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
solvent-refined (severe)	Inhalation (rat) LC50: >5.3 mg/l4 h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (rat) LD50: >5000 mg/kg ^[2]		
	TOXICITY	IRRITATION	
zinc bis(sec-butyl and 1,3-dimethylbutyl)	Dermal (rabbit) LD50: >5000 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]	
dithiophosphate	Oral (rat) LD50: 2900 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
nonylated diphenylamines	Oral (rat) LD50: >5000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin: no adverse effect observed (not irritating) ^[1]	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute data extracted from RTECS - Register of Toxic Effect of chemical Sul.	toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified ostances	
	5		
	For poly-alpha-olefins (PAOs):		

1-DODECENE. HOMOPOLYMER. HYDROGENATED

PAOs are highly branched, isoparaffinic chemicals produced by oligomerisation of 1-octene, 1-decene and/or 1-dodecene. The crude polyalphaolefin mixture is then distilled into appropriate product fractions to meet specific viscosity specifications and hydrogenated.

In existing data, there appears to be no data to show that these structural analogs cause health effects. In addition, there is evidence in the literature that alkanes with 30 or more carbon atoms are unlikely to be absorbed when given by mouth.

* US EPA HPV Challenge Program; 1-decene, tetramer, mixed with 1-decene trimer, hydrogenated October 2002 Repeated dose toxicity: Species:rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 0, 1000 mg/kg/day Exposure time: 28 days NOEL: 1.000 mg/kg Method: OECD Test Guideline 407 Information given is based on data obtained from similar substance CMR effects: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction Chevron Philips

Version No: **3.1.1.1**

2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Issue Date: **07/08/2019**Print Date: **07/08/2019**

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 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.

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.

ZINC BIS(SEC-BUTYL AND 1,3-DIMETHYLBUTYL) DITHIOPHOSPHATE

PARAFFINIC DISTILLATE,

(SEVERE)

HEAVY, SOLVENT-REFINED

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.

NONYLATED DIPHENYLAMINES

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.

PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE) & ZINC BIS(SEC-BUTYL AND 1,3-DIMETHYLBUTYL) DITHIOPHOSPHATE

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	×

Legend:

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

🥓 – Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

2068, 2024, 20127, 20374, 20375	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L	Not Available	Not Available	Not Available	Not Available	Not Available
4 dadaaaa hamaahaa	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
1-dodecene, homopolymer, hydrogenated	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, solvent-refined (severe)	EC50	48	Crustacea	>10-mg/L	2
Solvent-Tellinea (Severe)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
zinc bis(sec-butyl and 1,3-dimethylbutyl)	LC50	96	Fish	4.4mg/L	2
	EC50	48	Crustacea	75mg/L	2
dithiophosphate	EC50	72	Algae or other aquatic plants	240mg/L	2
	NOEC	504	Crustacea	0.4mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	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

Version No: 3.1.1.1 2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Issue Date: 07/08/2019 Print Date: 07/08/2019

(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

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

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

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

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 (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

SECTION 15 REGULATORY INFORMATION

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

1-DODECENE, HOMOPOLYMER, HYDROGENATED(151006-63-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification

Requirements

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

PARAFFINIC DISTILLATE, HEAVY, SOLVENT-REFINED (SEVERE)(64741-88-4.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Chemical Footprint Project - Chemicals of High Concern List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) US TSCA Chemical Substance Inventory - Interim List of Active Substances Number

ZINC BIS(SEC-BUTYL AND 1,3-DIMETHYLBUTYL) DITHIOPHOSPHATE(68784-31-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations	US Department of Transportation (DOT), Hazardous Material Table
International Maritime Dangerous Goods Requirements (IMDG Code)	US EPA Carcinogens Listing
United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	US EPCRA Section 313 Chemical List
US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits	US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants	US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number
US CWA (Clean Water Act) - Priority Pollutants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US CWA (Clean Water Act) - Toxic Pollutants	US TSCA Chemical Substance Inventory - Interim List of Active Substances

NONYLATED DIPHENYLAMINES(36878-20-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

IMO IBC Code Chapter 17: Summary of minimum requirements US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk US TSCA Chemical Substance Inventory - Interim List of Active Substances Version No: **3.1.1.1**

2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Issue Date: 07/08/2019 Print Date: 07/08/2019

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Gas under pressure No Explosive No Self-heating No Pyrophoric (Liquid or Solid) No Pyrophoric Gas No Corrosive to metal No Oxidizer (Liquid, Solid or Gas) No Oxidizer (Liquid, Solid or Gas) No Organic Peroxide No In contact with water emits flammable gas No Combustible Dust No Carcinogenicity No Acute toxicity (any route of exposure) No Reproductive toxicity No Reproductive toxicity or Skin Sensitization No Serious eye damage or eye irritation No Serious eye lamage or eye irritation No	OLO TION OF TIME AND OAT LOOKING	
Explosive No Self-heating No 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) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Flammable (Gases, Aerosols, Liquids, or Solids)	No
Self-heating No 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) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Gas under pressure	No
Pyrophoric Cliquid or Solid) 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 Carcinogenicity No Acute toxicity (any route of exposure) Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization Self-carged organ toxicity (single or repeated exposure) No Specific target organ toxicity (single or repeated exposure) No Simple Asphyxiant No Simple Asphyxiant	Explosive	No
Pyrophoric Gas No Corrosive to metal No Oxidizer (Liquid, Solid or Gas) No Organic Peroxide No Organic Peroxide No In contact with water emits flammable gas No Combustible Dust No Carcinogenicity No Acute toxicity (any route of exposure) No Reproductive toxicity Skin Corrosion or Irritation No Serious eye damage or eye irritation No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No Simple Asphyxiant No	Self-heating	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 Reproductive toxicity No Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Sepecific target organ toxicity (single or repeated exposure) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No Simple Asphyxiant No Serious eye Asphyxiant No Simple Asphyxiant No Simple Asphyxiant No Serious eye dasphyxiant No Simple Asphyxiant No Simple Asphyxiant No Serious eye dasphyxiant No Seri	Pyrophoric (Liquid or Solid)	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) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Pyrophoric Gas	No
Organic Peroxide Self-reactive In contact with water emits flammable gas In contact with water emits flammable gas No Combustible Dust No Carcinogenicity No Acute toxicity (any route of exposure) 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) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No No	Corrosive to metal	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) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No Smell Asphyxiant No N	Oxidizer (Liquid, Solid or Gas)	No
In contact with water emits flammable gas Combustible Dust No Carcinogenicity No Acute toxicity (any route of exposure) Reproductive toxicity No Skin Corrosion or Irritation Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard Germ cell mutagenicity No Simple Asphyxiant No	Organic Peroxide	No
Combustible Dust Carcinogenicity No Acute toxicity (any route of exposure) Reproductive toxicity No Skin Corrosion or Irritation Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) Aspiration Hazard Germ cell mutagenicity No Simple Asphyxiant No	Self-reactive	No
Carcinogenicity Acute toxicity (any route of exposure) Reproductive toxicity No Skin Corrosion or Irritation Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard Respiratory Re	In contact with water emits flammable gas	No
Acute toxicity (any route of exposure) 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) Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Combustible Dust	No
Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) Aspiration Hazard No Germ cell mutagenicity Simple Asphyxiant No	Carcinogenicity	No
Skin Corrosion or Irritation Respiratory or Skin Sensitization No Serious eye damage or eye irritation No Specific target organ toxicity (single or repeated exposure) Aspiration Hazard Germ cell mutagenicity No Simple Asphyxiant	Acute toxicity (any route of exposure)	No
Respiratory or Skin Sensitization Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Reproductive toxicity	No
Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) Aspiration Hazard No Germ cell mutagenicity Simple Asphyxiant No	Skin Corrosion or Irritation	No
Specific target organ toxicity (single or repeated exposure) Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Respiratory or Skin Sensitization	No
Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No	Serious eye damage or eye irritation	No
Germ cell mutagenicity No Simple Asphyxiant No	Specific target organ toxicity (single or repeated exposure)	No
Simple Asphyxiant No	Aspiration Hazard	No
	Germ cell mutagenicity	No
Hazards Not Otherwise Classified 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 - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (nonylated diphenylamines; 1-dodecene, homopolymer, hydrogenated; paraffinic distillate, heavy, solvent-refined (severe); zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (1-dodecene, homopolymer, hydrogenated)
Japan - ENCS	No (1-dodecene, homopolymer, hydrogenated)
Korea - KECI	No (zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate)
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (nonylated diphenylamines; 1-dodecene, homopolymer, hydrogenated; zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate)
Vietnam - NCI	No (zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate)
Russia - ARIPS	No (1-dodecene, homopolymer, hydrogenated; zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate)
Thailand - TECl	No (nonylated diphenylamines; 1-dodecene, homopolymer, hydrogenated; paraffinic distillate, heavy, solvent-refined (severe); zinc bis(sec-butyl and 1,3-dimethylbutyl) 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)

SECTION 16 OTHER INFORMATION

Revision Date	07/08/2019
Initial Date	05/08/2019

Chemwatch: **49-34939** Page **9** of **9**

Version No: 3.1.1.1

2068, 2024, 20127, 20374, 20375 SYNTHOIL RACE TECH GT1 10W-60 1L, 5L, 20L, 60L, 205L

Issue Date: **07/08/2019**Print Date: **07/08/2019**

SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	05/08/2019	Ingredients
3.1.1.1	07/08/2019	Ingredients

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.