

Mopar Max Pro SAE 0W-40 Full Synthetic Motor Oil Mopar(FCA US LLC Service & Customer Care Division)

Version No: 3.3

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

Chemwatch Hazard Alert Code: 2

Issue Date: **03/10/2021** Print Date: **12/14/2024** S.GHS.USA.EN

SECTION 1 Identification

Product Identifi	۵r

1 Todaot Idontino	
Product name	Mopar Max Pro SAE 0W-40 Full Synthetic Motor Oil
Chemical Name	Not Applicable
Synonyms	68524965AA, 68523970AA, 68523970CA
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Engine oil.

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

Registered company name	Mopar(FCA US LLC Service & Customer Care Division)	Mopar (FCA US LLC Service & Customer Care Division)
Address	26311 Lawrence Avenue, Center Line Michigan 48015 United States	26311 Lawerence Avenue, Center Line Michigan 48015 United States
Telephone	1-800-846-6727	1-800-846-6727
Fax	Not Available	Not Available
Website	Not Available	Not Available
Email	moparsds@fcagroup.com	moparsds@fcagroup.com

Emergency phone number

Association / Organisation	CHEMTREC	CHEMTREC
Emergency telephone number(s)	+1 703-741-5970	+1 703-741-5970
Other emergency telephone number(s)	248-512-8002	248-512-8002

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)

Classification

Non hazardous

Label elements

Hazard pictogram(s)

Not Applicable

Signal word

Not Applicable

Hazard statement(s)

Not Applicable

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Hazard(s) not otherwise classified

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Precautionary statement(s) Prevention

Not Applicable

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

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
848301-69-9	0-90	distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear
36878-20-3	1-5	Alkaryl amine
125643-61-0	<3	Alkylated phenol ester
Not Available	0.1-0.9	Alkylthiocarbamide Molybdenum Complex
27193-86-8	<0.29	Alkylphenol

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- ▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

Eye Contact

- 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
- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- ▶ Other measures are usually unnecessary.

Ingestion

- If swallowed do NOT induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration
- Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice
- Avoid giving milk or oils
- Avoid giving alcohol
- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

- · 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 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.

SECTION 5 Fire-fighting measures

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Extinguishing media

- Foam
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

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

Special protective equipment and precautions for fire-fighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- ▶ DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

- 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).
- May emit acrid smoke.
- ▶ Mists containing combustible materials may be explosive Combustion products include:

Fire/Explosion Hazard

carbon dioxide (CO2)

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

- 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.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable, labelled container for waste disposal

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
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources.
- Increase ventilation.
 - Stop leak if safe to do so.
 - Contain spill with sand, earth or vermiculite.
 - Collect recoverable product into labelled containers for recycling.
 - Absorb remaining product with sand, earth or vermiculite
 - Collect solid residues and seal in labelled drums for disposal.
 - Wash area and prevent runoff into drains.
 - If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

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

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- · Electrostatic discharge may be generated during pumping this may result in fire.
- · Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec).
- Avoid splash filling.
- Do NOT use compressed air for filling discharging or handling operations.
- · Wait 2 minutes after tank filling (for tanks such as those on
- road tanker vehicles) before opening hatches or manholes.

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Wait 30 minutes after tank filling (for large storage tanks) before opening hatches or manholes. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to · accumulate, electrostatic discharge and ignition of flammable · air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result · from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, \cdot filtering, splash filling, cleaning and filling of tanks and · containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (= 1 m/s until fill pipe submerged to twice its diameter, then = 7 m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations 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. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. ▶ DO NOT allow clothing wet with material to stay in contact with skin Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources.

Conditions for safe storage, including any incompatibilities

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

Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Conditions for sale 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	Avoid reaction with oxidising agents		

▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Other information

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear	140 mg/m3	1,500 mg/m3	8,900 mg/m3
Alkylphenol	4.1 mg/m3	45 mg/m3	420 mg/m3

Ingredient	Original IDLH	Revised IDLH
distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear	2,500 mg/m3	Not Available
Alkaryl amine	Not Available	Not Available
Alkylated phenol ester	Not Available	Not Available
Alkylthiocarbamide Molybdenum Complex	Not Available	Not Available
Alkylphenol	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
Alkylphenol	D	> 0.1 to ≤ 1 ppm	
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 concentrations that are expected to protect worker health.		

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Exposure 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant: Air Speed: 0.25-0.5 m/s (50solvent, vapours, degreasing etc., evaporating from tank (in still air) 100 f/min) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, 0.5-1 m/s (100spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 200 f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200-500 f/min) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone 2.5-10 m/s (500-2000 f/min.) of very high rapid air motion)

Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment







Eye and face protection

- Safety glasses with side shields
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection

See Hand protection below

Hands/feet protection

- ▶ Wear chemical protective gloves, e.g. PVC.
 - ▶ Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance 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. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material, glove thickness and

dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

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Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended **Body protection** See Other protection below Overalls. P.V.C apron. Other protection Barrier cream. Skin cleansing cream. Eye wash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

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Material	СРІ
TEFLON	A
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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

Respiratory protection

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

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

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

^ - 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** amber Relative density (Water = 1) 0.841 (15 °C / 59 °F) Physical state Liquid at room temperature Partition coefficient n-octanol Odour Not Available >6 Auto-ignition temperature Odour threshold Not Available > 320 °C / 608 °F (°C) Decomposition pH (as supplied) Not Applicable Not Available temperature (°C) 74.9 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445 13.7 mm2/s -51 °C / -60 °F Method: ASTM pour point (°C) Viscosity (cSt) (100 °C / 212 °F) Method: ASTM D445 : > 280 °C / 536 °F estimated Initial boiling point and Molecular weight (g/mol) Not Available boiling range (°C) value(s) 206 °C / 403 °F Method: ASTM Flash point (°C) Not Available D93 (PMCC) **Evaporation rate** Not Available **Explosive properties** Not Available Flammability Not Available Not Applicable **Oxidising properties** Surface Tension (dyn/cm or Upper Explosive Limit (%) Typical 10 %(V) Not Available mN/m) Lower Explosive Limit (%) Typical 1 %(V) Volatile Component (%vol) Not Available < 0.0005 (20 °C / 68 °F) Vapour pressure (kPa) Gas group Not Available estimated value(s) Solubility in water pH as a solution (1%) Not Available negligible

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

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Vapour density (Air = 1)	> 1 estimated value(s)	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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	۸n	tovico	logical	offects
miormation	OH	LOXICO	iouicai	enecis

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.

Ingestion

Inhaled

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

Skin Contact

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

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.

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.

The material may accentuate any pre-existing dermatitis condition

Eye

Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient

discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

lopar Max Pro SAE 0W-40	TOXICITY	IRRITATION	
Full Synthetic Motor Oil	Not Available	Not Available	
tillates (Fischer-Tropsch),	TOXICITY	IRRITATION	
heavy, C18-50, branched, cyclic and linear	Oral (Rat) LD50: >5000 mg/kg ^[1]	Not Available	
Alkaryl amine	TOXICITY	IRRITATION	
	Oral (Rat) LD50: >5000 mg/kg ^[2]	Not Available	
Alkylated phenol ester	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available	
	Oral (Rat) LD50: >200 mg/kg ^[2]		
Alkylthiocarbamide Molybdenum Complex	TOXICITY	IRRITATION	
	Not Available	Not Available	
Alkylphenol	TOXICITY	IRRITATION	

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	Dermal (rabbit) LD50: 4700 mg/kg ^[2]	Eye (Rodent - ra	bbit): 100uL - Moderate
	Oral (Rat) LD50: 2100 mg/kg ^[2]	Skin (Rodent - ra	abbit): 500uL - Severe
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxic specified data extracted from RTECS - Register of Toxic Effect of chemical specified data extracted from RTECS - Register of Toxic Effect of chemical specified data.		tained from manufacturer's SDS. Unless otherwis
DISTILLATES (FISCHER- TROPSCH), HEAVY, C18-50, BRANCHED, CYCLIC AND	No significant acute toxicological data identified in literature search.		
LINEAR Acute Toxicity	X Care	cinogenicity	×
Acute Toxicity		cinogenicity	
Skin Irritation/Corrosion	X Rej	productivity	×
Serious Eye Damage/Irritation	X STOT - Singl	le Exposure	×
Respiratory or Skin sensitisation	X STOT - Repeate	ed Exposure	×
Mutagenicity	X Aspira	ation Hazard	×

Legend:

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

SECTION 12 Ecological information

Toxicity

M M D CAE 014/ 40	Endpoint	Test Duration (hr)	Species	Value	Source
Mopar Max Pro SAE 0W-40 Full Synthetic Motor Oil	Not Available	Not Available	Not Available	Not Available	Not Available
distillates (Fischer-Tropsch),	Endpoint	Test Duration (hr)	Species	Value	Source
heavy, C18-50, branched, cyclic and linear	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	96h	Crustacea	<10mg/l	1
Alleand amine	EC50	48h	Crustacea	733mg/l	Not Available
Alkaryl amine	LC50	96h	Fish	>10000mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	870mg/l	2
	EC50	72h	Algae or other aquatic plants	600mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	3mg/l	Not Available
Alkylated phenol ester	EC50(ECx)	72h	Algae or other aquatic plants	3mg/l	Not Available
	EC50	48h	Crustacea	>0.008mg/l	2
	LC50	96h	Fish	>74mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
Alkylthiocarbamide Molybdenum Complex	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Valu	Source
Alkylphenol	BCF	1440h	Fish	300- 640	7
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Infor Aquatic Hazard Assessment Data 6. NITE (Japan)		

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic originals, due to the interruption of the

oxygen transfer between the air and the water

- Oils of any kind can cause:
- drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- ▶ lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

For Gas Oils/Distillate Fuels:

Environmental Fate: The gas oils/distillate fuels include both finished products, (distillate fuels), and the refinery streams, (gas oils), from which they are blended. The distillate fuels covered in this category are used in diesel engines and for both industrial and domestic heating. Gas oil/distillate fuels are complex petroleum mixtures, composed primarily of saturated or aromatic hydrocarbons. These substances are similar, from both a process, and physical-chemical perspective, being differentiated from each other primarily by

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their aromatic/saturated hydrocarbon content. Saturated and aromatic hydrocarbons having nine carbon atoms have a tendency to partition to air, (up to 98%). As molecular weight increases, partitioning shifts to soil, (98% of the distribution of the C30 components). Gas oils with high concentrations of either aromatic or saturated hydrocarbons are expected to partition in the environment in a similar manner.

Atmospheric Fate: The degree and rate at which these compounds break down in sunlight, (photodegrade), depends upon conditions which allow penetration of light with sufficient energy, to effect a structural change in the substance. Components in gas oils that do not directly photodegrade, (e.g., paraffins, naphthenes, and one-ring aromatic compounds), may be subject to indirect photodegradation reactions with atmospheric hydroxyl radicals. Gas oils/distillate fuels substances are not expected to evaporate significantly. Polyaromatic hydrocarbons potentially undergo reactions with sunlight.

Terrestrial Fate: Gas oils/distillate fuels typically do not pass test for readily biodegradable status. Although these compounds are not recognized as being readily biodegradable, most hydrocarbon species, present in gas oils, are known to be ultimately degraded by oxygen using microorganisms. Lower molecular weight compounds may be expected to be degraded relatively quickly, in the presence of oxygen, while higher molecular weight compounds, particularly polycyclic aromatics, will degrade slower. Under low oxygen conditions, such as oxygenless sediments, rates of biodegradation of gas oils components are negligible thus gas oils may persist under those conditions for some time. Degradation will then will be dependent on disturbed sediment, or re-suspension of water-borne particles, to provide microbes with oxygen.

Aquatic Fate: When released to water, gas oils/distillate fuels will float and spread at a rate that is dependent on the thickness, (viscosity), of the substance released. Hydrocarbon components will partition to water according to their individual solubility values. Chemicals that have a potential to break down in water include alkyl halides, amides, carboxylic acid esters and lactones, epoxides, phosphate esters, and sulfonic acid esters. Materials in the gas oils category are not subject to breakdown in water.

Ecotoxicity: In general, these commercial distillate fuels show moderate toxicity to aquatic life, including fish, invertebrates, and algae.

For petroleum distillates:

Environmental fate:

When petroleum substances are released into the environment, four major fate processes will take place: dissolution in water, volatilization, biodegradation and adsorption. These processes will cause changes in the composition of these UVCB substances. In the case of spills on land or water surfaces, photodegradation-another fate process-can also be significant.

As noted previously, the solubility and vapour pressure of components within a mixture will differ from those of the component alone. These interactions are complex for complex UVCBs such as petroleum hydrocarbons.

Each of the fate processes affects hydrocarbon families differently. Aromatics tend to be more water-soluble than aliphatics of the same carbon number, whereas aliphatics tend to be more volatile. Thus, when a petroleum mixture is released into the environment, the principal water contaminants are likely to be aromatics, whereas aliphatics will be the principal air contaminants . The trend in volatility by component class is as follows: alkenes = alkanes > aromatics = cycloalkanes.

The most soluble and volatile components have the lowest molecular weight; thus there is a general shift to higher molecular weight components in residual materials. Biodegradation:

Biodegradation is almost always operative when petroleum mixtures are released into the environment. It has been widely demonstrated that nearly all soils and sediments have populations of bacteria and other organisms capable of degrading petroleum hydrocarbons Degradation occurs both in the presence and absence of oxygen. Two key factors that determine degradation rates are oxygen supply and molecular structure. In general, degradation is more rapid under aerobic conditions. Decreasing trends in degradation rates according to structure are as follows:

- (1) n-alkanes, especially in the C10-C25 range, which are degraded readily;
- (2) isoalkanes;
- (3) alkenes;
- (4) benzene, toluene, ethylbenzene, xylenes (BTEX) (when present in concentrations that are not toxic to microorganisms);
- (5) monoaromatics;
- (6) polynuclear (polycyclic) aromatic hydrocarbons (PAHs); and
- (7) higher molecular weight cycloalkanes (which may degrade very slowly.

Three weathering processes-dissolution in water, volatilization and biodegradation-typically result in the depletion of the more readily soluble, volatile and degradable compounds and the accumulation of those most resistant to these processes in residues.

When large quantities of a hydrocarbon mixture enter the soil compartment, soil organic matter and other sorption sites in soil are fully saturated and the hydrocarbons will begin to form a separate phase (a non-aqueous phase liquid, or NAPL) in the soil. At concentrations below the retention capacity for the hydrocarbon in the soil, the NAPL will be immobile this is referred to as residual NAPL. Above the retention capacity, the NAPL becomes mobile and will move within the soil Bioaccumulation:

Bioaccumulation potential was characterized based on empirical and/or modelled data for a suite of petroleum hydrocarbons expected to occur in petroleum substances. Bioaccumulation factors (BAFs) are the preferred metric for assessing the bioaccumulation potential of substances, as the bioconcentration factor (BCF) may not adequately account for the bioaccumulation potential of substances via the diet, which predominates for substances with log Kow > ~4.5

In addition to fish BCF and BAF data, bioaccumulation data for aquatic invertebrate species were also considered. Biota-sediment/soil accumulation factors (BSAFs), trophic magnification factors and biomagnification factors were also considered in characterizing bioaccumulation potential.

Overall, there is consistent empirical and predicted evidence to suggest that the following components have the potential for high bioaccumulation, with BAF/BCF values greater than 5000: C13–C15 isoalkanes, C12 alkenes, C12–C15 one-ring cycloalkanes, C12 and C15 two-ring cycloalkanes, C14 polycycloalkanes, C15 one-ring aromatics, C15 and C20 cycloalkane monoaromatics, C12–C13 diaromatics, C20 cycloalkane diaromatics, and C14 and C20 three-ring PAHs

These components are associated with a slow rate of metabolism and are highly lipophilic. Exposures from water and diet, when combined, suggest that the rate of uptake would exceed that of the total elimination rate. Most of these components are not expected to biomagnify in aquatic or terrestrial foodwebs, largely because a combination of metabolism, low dietary assimilation efficiency and growth dilution allows the elimination rate to exceed the uptake rate from the diet; however,

one study suggests that some alkyl-PAHs may biomagnify. While only BSAFs were found for some PAHs, it is possible that BSAFs will be > 1 for invertebrates, given that they do not have the same metabolic competency as fish.

In general, fish can efficiently metabolize aromatic compounds. There is some evidence that alkylation increases bioaccumulation of naphthalene but it is not known if this can be generalized to larger PAHs or if any potential increase in bioaccumulation due to alkylation will be sufficient to exceed a BAF/BCF of 5000.

Some lower trophic level organisms (i.e., invertebrates) appear to lack the capacity to efficiently metabolize aromatic compounds, resulting in high bioaccumulation potential for some aromatic components as compared to fish.

This is the case for the C14 three-ring PAH, which was bioconcentrated to a high level (BCF > 5000) by invertebrates but not by fish. There is potential for such bioaccumulative components to reach toxic levels in organisms if exposure is continuous and of sufficient magnitude, though this is unlikely in the water column following a spill scenario due to relatively rapid dispersal

Bioaccumulation of aromatic compounds might be lower in natural environments than what is observed in the laboratory. PAHs may sorb to organic material suspended in the water column (dissolved humic material), which decreases their overall bioavailability primarily due to an increase in size. This has been observed with fish Ecotoxicity:

Diesel fuel studies in salt water are available. The values varied greatly for aquatic species such as rainbow trout and Daphnia magna, demonstrating the inherent variability of diesel fuel compositions and its effects on toxicity. Most experimental acute toxicity values are above 1 mg/L. The lowest 48-hour LC50 for salmonids was 2.4 mg/L. Daphnia magna had a 24-hour LC50 of 1.8 mg/. The values varied greatly for aquatic species such as rainbow trout and Daphnia magna, demonstrating the inherent variability of diesel fuel compositions and its effects on toxicity. Most experimental acute toxicity values are above 1 mg/L. The lowest 48-hour LC50 for salmonids was 2.4 mg/L. Daphnia magna had a 24-hour LC50 of 1.8 mg/L

The tropical mysid Metamysidopsis insularis was shown to be very sensitive to diesel fuel, with a 96-hour LC50 value of 0.22 mg/L this species has been shown to be as sensitive as temperate mysids to toxicants. However, However this study used nominal concentrations, and therefore was not considered acceptable. In another study involving diesel fuel, the effect on brown or common shrimp (Crangon crangon) a 96-hour LC50 of 22 mg/L was determined. A "gas oil" was also tested and a 96-hour LC50 of 12 mg/L. was determined

The steady state cell density of marine phytoplankton decreased with increasing concentrations of diesel fuel, with different sensitivities between species. The diatom Phaeodactylum tricornutum showed a 20% decrease in cell density in 24 hours following a 3 mg/L exposure with a 24-hour no-observed effect concentration (NOEC) of 2.5 mg/L. The microalga Isochrysis galbana was more tolerant to diesel fuel, with a 24-hour lowest-observed-effect concentration (LOEC) of 26 mg/L (14% decrease in cell density), and a NOEC of 25 mg/L.

Finally, the green algae Chlorella salina was relatively insensitive to diesel fuel contamination, with a 24-hour LOEC of 170 mg/L (27% decrease in cell density), and a NOEC of 160 mg/L. All populations of phytoplankton returned to a steady state within 5 days of exposure

In sandy soils, earthworm (Eisenia fetida) mortality only occurred at diesel fuel concentrations greater than 10 000 mg/kg, which was also the concentration at which sub-lethal weight loss was recorded

Nephrotoxic effects of diesel fuel have been documented in several animal and human studies. Some species of birds (mallard ducks in particular) are generally resistant to the toxic effects of petrochemical ingestion, and large amounts of petrochemicals are needed in order to cause direct mortality

DO NOT discharge into sewer or waterways.

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Alkylphenol HIGH	Ingredient	Persistence: Water/Soil	Persistence: Air
7 II OT		HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
Alkaryl amine	LOW (LogKOW = 12.24)
Alkylated phenol ester	LOW (LogKOW = 7.93)
Alkylphenol	MEDIUM (BCF = 850)

Mobility in soil

Ingredient	Mobility
Alkylphenol	LOW (Log KOC = 382000)

Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

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

Otherwise:

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

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

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

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

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- 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

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

Not Applicable

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

Product name	Group
distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear	Not Available
Alkaryl amine	Not Available
Alkylated phenol ester	Not Available
Alkylthiocarbamide Molybdenum Complex	Not Available
Alkylphenol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear	Not Available
Alkaryl amine	Not Available

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Ship Type Product name Not Available Alkylated phenol ester Alkylthiocarbamide Not Available Molybdenum Complex Alkylphenol Not Available

SECTION 15 Regulatory information

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

distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

US - Pennsylvania - Hazardous Substance List

US DOE Temporary Emergency Exposure Limits (TEELs)

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

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

Alkaryl amine is found on the following regulatory lists

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

Alkylated phenol ester is found on the following regulatory lists

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

Alkylthiocarbamide Molybdenum Complex is found on the following regulatory lists

Not Applicable

Alkylphenol is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Substance Registry Services (SRS) - 2020 CDR TSCA 4 TR

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

Additional Regulatory Information

Not Applicable

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

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

CAS-No. Components Component RQ (lbs) Calculated product RQ (lbs)

107-15-3 Ethylenediamine (SVHC) 5000 Ethanediol 107-21-1 5000

*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment

are not re-portable under CERCLA., The components with RQs are given for information.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: No SARA Hazards

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SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III,

Section 313. Ethanediol

107-21-1 0.1 - 0.9 %

Clean Water Act

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

Ethylenediamine (SVHC) 107-15-3 0.0053 %

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

Components CAS-No. Component RQ (lbs) Calculated product RQ (lbs)

Ethylenediamine (SVHC) 107-15-3 5000 Ethanediol 107-21-1 5000

*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment

are not re-portable under CERCLA., The components with RQs are given for information.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: No SARA Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III,

Section 313.

Ethanediol 107-21-1 0.1 - 0.9 %

Clean Water Act The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

Ethylenediamine (SVHC) 107-15-3 0.0053 %

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

Additional State Regulatory Information

Not Applicable

National Inventory Status

rational involtory otatao		
National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear; Alkaryl amine; Alkylated phenol ester)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	All components listed or polymer exempt.	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear; Alkaryl amine; Alkylphenol)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (distillates (Fischer-Tropsch), heavy, C18-50, branched, cyclic and linear; Alkylated phenol ester)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	03/10/2021
Initial Date	02/25/2021

SDS Version Summary

Version	Date of Update	Sections Updated
2.3	03/10/2021	Composition / information on ingredients - Ingredients, Identification of the substance / mixture and of the company / undertaking - Synonyms

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.

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Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
 PC STEL: Permissible Concentration-Short Term Exposure Limit
- ► IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- ► IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
 ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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