SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

QUARTZ MOPAR FPW/02 0W-30

SDS no. C3O0DOK74
:

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : QUARTZ MOPAR FPW/02 0W-30

Product code : C3O0DOK74

Product description : Not available.

Product type : Liquid.

Other means of identification : Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Engine oil

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants
562 Avenue du Parc de L'ile
92029 Nanterre Cedex FRANCE
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited
10 Upper Bank Street (19th floor)
Canary Wharf,
London E14 5BF
UNITED KINGDOM
Tel: +44 (0)20 7339 8000
Fax: +44 (0)20 7339 8033

rm.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number : Emergency telephone: +44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : No hazard statement.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.
Safety data sheet available on request.

Labelling element REACh Annex XVII : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.
This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do not result in classification : Hazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7	≥25 - ≤50	Asp. Tox. 1, H304	[Haz]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≥10 - ≤25	Asp. Tox. 1, H304	[Haz]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7	≤3	Asp. Tox. 1, H304	[Haz]

SECTION 3: Composition/information on ingredients

	Index: 649-467-00-8			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	[Haz]
Distillates (petroleum), solvent-dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9	≤3	Asp. Tox. 1, H304	[Haz]
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	REACH #: 01-0000015551-76 EC: 406-040-9 CAS: 125643-61-0	≤3	Aquatic Chronic 4, H413	[Haz]
Paraffin oils (petroleum), catalytic dewaxed heavy	REACH #: 01-2119487080-42 EC: 265-174-4 CAS: 64742-70-7	≤3	Asp. Tox. 1, H304 Aquatic Chronic 4, H413	[Haz]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X	≤3	Asp. Tox. 1, H304	[Haz]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≤3	Asp. Tox. 1, H304	[Haz]
Reaction products of diphenylamine with nonene, branched	REACH #: 01-2119488911-28 EC: 701-385-4	≤3	Repr. 2, H361f	[Haz]
C14-16-18 Alkyl phenol	REACH #: 01-2119498288-19 EC: 931-468-2	≤0.3	Skin Sens. 1B, H317 STOT RE 2, H373	[Haz]

Component : % (w/w)

Type

[Haz] Classified with a health or environmental hazard

Additional information : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : irritation
redness
dryness
cracking

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : carbon monoxide
carbon dioxide
nitrogen oxides
phosphorus oxides
sulfur oxides
Hydrogen sulfide
Mercaptans
Zinc oxides

SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). See Section 10 for incompatible materials before handling or use.

SECTION 7: Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological Limit Values (BLV)

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Advisory OEL : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

DNELs/DMELs

Product/substance	Result
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation**

SECTION 8: Exposure controls/personal protection

	2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
Distillates (petroleum), hydrotreated heavy paraffinic	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
Distillates (petroleum), solvent-dewaxed light paraffinic	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³

SECTION 8: Exposure controls/personal protection

	Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate	**DNEL - Workers - Long term - Dermal** 0.006 mg/cm² Effects: Local **DNEL - General population - Long term - Oral** 0.16 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.22 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 0.33 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 0.74 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Dermal** 1 mg/cm² Effects: Local **DNEL - Workers - Long term - Inhalation** 2.33 mg/m³ Effects: Systemic **DNEL - General population - Short term - Dermal** 8.33 mg/cm² Effects: Local **DNEL - Workers - Short term - Dermal** 20 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 50 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 50 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Inhalation** 875 mg/m³ Effects: Systemic

SECTION 8: Exposure controls/personal protection

	DNEL - Workers - Short term - Inhalation 1750 mg/m³ Effects: Systemic
Paraffin oils (petroleum), catalytic dewaxed heavy	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	**DNEL - Workers - Long term - Inhalation** 5.4 mg/m³ Effects: Local **DNEL - General population - Long term - Inhalation** 1.2 mg/m³ Effects: Local **DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	**DNEL - General population - Long term - Oral** 0.74 mg/kg bw/day Effects: Local **DNEL - General population - Long term - Oral**

SECTION 8: Exposure controls/personal protection

	0.74 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.97 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 1.19 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2.73 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 5.58 mg/m³ Effects: Local
Reaction products of diphenylamine with nonene, branched	**DNEL - Workers - Long term - Inhalation** 1.41 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 0.35 mg/m³ Effects: Systemic **DNEL - General population - Long term - Dermal** 2 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Oral** 0.2 mg/kg bw/day Effects: Systemic
C14-16-18 Alkyl phenol	**DNEL - Workers - Long term - Inhalation** 1.17 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.3 mg/kg bw/day Effects: Systemic

PNECs

SECTION 8: Exposure controls/personal protection

Product/substance	Result
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	**Secondary Poisoning** 9.33 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	**Secondary Poisoning** 9.33 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**Secondary Poisoning** 9.33 mg/kg
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate	**Fresh water** 0.0043 mg/l **Marine water** 0.00043 mg/l **Fresh water sediment** 233 mg/kg dwt **Marine water sediment** 23.3 mg/kg dwt **Soil** 189 mg/kg
Reaction products of diphenylamine with nonene, branched	**Fresh water** 0.412 mg/l **Marine water** 0.041 mg/l **Fresh water sediment** 1 mg/kg dwt **Marine water sediment** 0.1 mg/kg dwt
C14-16-18 Alkyl phenol	**Fresh water** 0.1 mg/l **Marine water** 0.01 mg/l **Fresh water sediment** 4266.16 mg/kg dwt **Marine water sediment** 426.62 mg/kg dwt **Soil** 852.58 mg/kg dwt **Sewage Treatment Plant** 100 mg/l

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : In case of contact through splashing: safety glasses with side-shields, EN 166.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Hydrocarbon-proof gloves. Fluorinated rubber. nitrile rubber Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

Body protection : Wear work clothing with long sleeves.
Protective shoes or boots.

Respiratory protection : None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear]

Colour : Clear.

Odour : Characteristic.

Melting point/freezing point : Technically not possible to measure

Initial boiling point and boiling range : >316°C [EN ISO 3405]

Flammability (solid, gas) : Non-flammable.

Upper/lower flammability or explosive limits : Lower: 0.9%
Upper: 7%

Flash point : Open cup: 230°C [ASTM D 92]

Auto-ignition temperature : >230°C (>446°F) [ASTM E 659]

SECTION 9: Physical and chemical properties

Decomposition temperature : Not applicable.

pH : Product is non-soluble (in water).
Not applicable.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): 51.51 mm^2/s [ISO 3104]

Solubility(ies) :

Media	Result
water	Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure : <0.01 kPa (<0.075 mm Hg) [room temperature]
Not applicable. [50°C (122°F)]

Relative density : 0.844 [ISO 12185]

Density : 0.844 g/cm³ [15°C (59°F)] [ISO 12185]

Vapour density : >2 [Air = 1]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Result

SECTION 11: Toxicological information

Dec-1-ene, trimers, hydrogenated	**Rat - Oral - LD50** >5000 mg/kg OECD [401] **Rat - Dermal - LD50** >3000 mg/kg OECD [402] **Rat - Inhalation - LC50 Vapour** 1.17 mg/l [4 hours] OECD [403] **Rat - Inhalation - LC50 Vapour** 0.9 mg/l [4 hours] OECD [403] **Rat - Inhalation - LC50 Vapour** 1.4 mg/l [4 hours] OECD [403]
Distillates (petroleum), hydrotreated heavy paraffinic	**Rat - Male, Female - Oral - LD50** >5000 mg/kg OECD [401 Read across] **Rabbit - Male, Female - Dermal - LD50** >5000 mg/kg OECD [402 Read across] **Rat - Male, Female - Inhalation - LC50 Dusts and mists** >5 mg/l [4 hours] OECD [403 Read across]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**Rabbit - Dermal - LD50** >5000 mg/kg OECD [402] **Rat - Oral - LD50** >5000 mg/kg OECD [420] **Rat - Inhalation - LC50 Dusts and mists** >5 mg/l [4 hours] OECD [403]
Distillates (petroleum), solvent-dewaxed light paraffinic	**Rat - Oral - LD50** >5000 mg/kg OECD [401] **Rabbit - Dermal - LD50** >5000 mg/kg OECD [402] **Rat - Inhalation - LC50 Dusts and mists** >5 mg/l [4 hours] OECD [403]
Paraffin oils (petroleum), catalytic dewaxed	**Rat - Male, Female - Oral - LD50**

SECTION 11: Toxicological information

heavy	>5000 mg/kg OECD 401 [Acute Oral Toxicity] **Rabbit - Male, Female - Dermal - LD50** >5000 mg/kg OECD 402 [Acute Dermal Toxicity] **Rat - Inhalation - LC50 Dusts and mists** >5.53 mg/l [4 hours] OECD [Equivalent or similar to OECD Guideline 403]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	**Rat - Oral - LD50** >5000 mg/kg OECD [401] **Rabbit - Dermal - LD50** >5000 mg/kg OECD [402] **Rat - Inhalation - LC50 Dusts and mists** 5.53 mg/l [4 hours] OECD [403]
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	**Rat - Male, Female - Oral - LD50** >5000 mg/kg OECD [401 Read across] **Rabbit - Male, Female - Dermal - LD50** >5000 mg/kg OECD [402 Read across] **Rat - Inhalation - LC50 Dusts and mists** 5.1 mg/l [4 hours] OECD [403]
Reaction products of diphenylamine with nonene, branched	**Rat - Male, Female - Oral - LD50** >5000 mg/kg OECD [Equivalent or similar to guideline OECD 401] Toxic effects: No mortality was observed at a single dose of 5000 mg/kg bw.
C14-16-18 Alkyl phenol	**Rat - Oral - LD50** 2000 mg/kg **Rat - Dermal - LD50** 2000 mg/kg

Acute toxicity estimates

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.53
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1

SECTION 11: Toxicological information

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Respiratory corrosion/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin

Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction.

Respiratory

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Product/substance	Result
C14-16-18 Alkyl phenol	STOT RE 2, H373

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : irritation
redness
dryness
cracking

Ingestion : No specific data.

SECTION 11: Toxicological information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/substance	Result
Paraffin oils (petroleum), catalytic dewaxed heavy	**Sub-chronic - Rat - Oral - LOAEL** OECD 408 [Equivalent or similar to OECD Guideline 408] 125 mg/kg **Sub-chronic - Rat - Dermal - NOAEL** OECD 411 [equivalent or similar to OECD Guideline 411] <30 mg/kg **Sub-acute - Rat - Inhalation - NOAEC** OECD 412 [Equivalent or similar to OECD Guideline 412] 980 mg/m³ [6 hours per day] [4 weeks]
Reaction products of diphenylamine with nonene, branched	**Sub-chronic - Rat - Male, Female - Oral - LOAEL** OECD [According to guideline OECD 408] 100 mg/kg

General : No known significant effects or critical hazards.

Carcinogenicity : During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance	Result
Dec-1-ene, trimers, hydrogenated	**Acute - EL50 - Fresh water** OECD [201] Algae - *Scenedesmus capricornutum* >1000 mg/l [72 hours] Effect: (growth rate) **Acute - EL50 - Fresh water** OECD [202] Daphnia >150 mg/l [48 hours] Effect: Mobility **Acute - LL50 - Fresh water** OECD [203] Fish - *Oncorhynchus mykiss* 1000 mg/l [96 hours] Effect: Mortality
Distillates (petroleum), hydrotreated heavy paraffinic	**Acute - EC50** OECD [202] Crustaceans - *Daphnia magna* >10000 mg/l [48 hours] Effect: Mobility **Acute - EC50** OECD [201] Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate) **Chronic - NOEL** Crustaceans - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction **Chronic - NOEL** OECD [201] Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	**Acute - LL50** OECD 203 Fish - *Oncorhynchus mykiss* >1000 mg/l [96 hours] **Acute - EL50** OECD [202] Crustaceans - *Daphnia magna* >10000 mg/l [48 hours] Effect: Mobility

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	Chronic - NOEL OECD [211] Crustaceans - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction
Distillates (petroleum), solvent-dewaxed light paraffinic	**Acute - EL50** OECD [203] Fish - *Pimephales promelas* ≥100 mg/l [96 hours] **Acute - EL50** OECD 202 Crustaceans - *Daphnia magna* 10000 mg/l [48 hours] Effect: Mobility **Acute - EL50** OECD 201 Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate) **Chronic - NOEL** OECD [211] Crustaceans - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction **Chronic - NOEL** OECD [201] Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate)
Paraffin oils (petroleum), catalytic dewaxed heavy	**Acute - LL50 - Fresh water** OECD 203 [Fish, Acute Toxicity Test] Fish - *Pimephales promelas* >100 mg/l [96 hours] Effect: Mortality **Acute - EL50 - Fresh water** OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - *Daphnia magna* >10000 mg/l [48 hours] Effect: Mobility **Chronic - EL50 - Fresh water** OECD 211 [Daphnia Magna Reproduction Test] Daphnia - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction **Acute - NOEL - Fresh water** OECD 201 [Alga, Growth Inhibition Test]

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	Algae - *Raphidocelis subcapitata* ≥100 mg/l [72 hours] Effect: (growth rate) **Acute - NOEL** EU [DIN 38412 / part 15] Micro-organism >1.93 mg/l [4 days]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	**Acute - LL50** OECD 203 Fish - *Pimephales promelas* >1000 mg/l [96 hours] **Acute - EL50** OECD [202] Crustaceans - *Daphnia magna* >10000 mg/l [48 hours] Effect: Mobility **Acute - EL50** OECD 201 Algae - *Pseudokircheriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate) **Chronic - NOEL** OECD 211 Crustaceans - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction **Chronic - NOEL** OECD 201 Algae - *Pseudokircheriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate)
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	**Acute - LL50** OECD [203] Fish - *Pimephales promelas* >100 mg/l [96 hours] **Acute - EL50** OECD [202] Crustaceans - *Daphnia magna* >10000 mg/l [48 hours] Effect: Mobility **Acute - EL50** OECD [201] Algae - *Pseudokirchneriella subcapitata* >100 mg/l [48 hours] Effect: (growth rate) **Chronic - NOEL**

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	OECD [211] Crustaceans - *Daphnia magna* >1000 mg/l [21 days] Effect: Reproduction **Chronic - NOEL** OECD [201] Algae - *Pseudokirchneriella subcapitata* >100 mg/l [72 hours] Effect: (growth rate)
C14-16-18 Alkyl phenol	**Acute - EC50** OECD [202] Daphnia - *Daphnia magna* >100 mg/l [48 hours]

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/substance	Result
Dec-1-ene, trimers, hydrogenated	OECD [301B] 7% [28 days]
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F 31% [28 days] - Not readily
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	OECD 301B 2% [28 days] - Not readily
Paraffin oils (petroleum), catalytic dewaxed heavy	OECD 301 [Ready Biodegradability - Manometric Respirometry Test] 31% [28 days] - Not readily
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	OECD 301F 31% [28 days] - Not readily
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F 31% [28 days] - Not readily

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Dec-1-ene, trimers, hydrogenated	-	-	Not readily
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	Not readily

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Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	Not readily
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	-	-	Not readily
Paraffin oils (petroleum), catalytic dewaxed heavy	-	-	Not readily
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	-	-	Not readily
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-	-	Not readily
Reaction products of diphenylamine with nonene, branched	-	-	Not readily

12.3 Bioaccumulative potential

Product/substance	$LogK_{ow}$	BCF	Potential
Dec-1-ene, trimers, hydrogenated	>6.5	-	High
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	Low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	Low
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	9.2	260 [OECD 305]	Low
Paraffin oils (petroleum), catalytic dewaxed heavy	1.99 to 18.02	0.4 to 71100	High
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	6.1	-	High
Reaction products of diphenylamine with nonene, branched	-	1010	High

12.4 Mobility in soil

SECTION 12: Ecological information

Soil/water partition coefficient

Not available.

Results of PMT and vPvM assessment

Product/substance	PMT	P	M	T	vPvM	vP	vM
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	No	N/A	N/A	No	N/A	N/A	N/A
Paraffin oils (petroleum), catalytic dewaxed heavy	No	N/A	N/A	No	N/A	N/A	N/A
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Reaction products of diphenylamine with nonene, branched	N/A	N/A	N/A	Yes	N/A	N/A	N/A
C14-16-18 Alkyl phenol	N/A	N/A	N/A	Yes	N/A	N/A	N/A

Mobility : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water. Loss by evaporation is limited

12.5 Results of PBT and vPvB assessment

Product/substance	PBT	P	B	T	vPvB	vP	vB
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	No	N/A	N/A	No	N/A	N/A	N/A
Dec-1-ene, trimers, hydrogenated	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	No	No	No	N/A	No
Distillates (petroleum), solvent-dewaxed light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A

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reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl) propionate	No	N/A	No	No	No	N/A	No
Paraffin oils (petroleum), catalytic dewaxed heavy	No	N/A	No	No	No	N/A	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
OTHER LUBRICANT BASE OILS IP 346 < 3% w/w; Viscosity ≤ 20.5 mm²/s at 40°C	No	N/A	N/A	No	N/A	N/A	N/A
Reaction products of diphenylamine with nonene, branched	No	N/A	No	Yes	No	N/A	No
C14-16-18 Alkyl phenol	N/A	N/A	N/A	Yes	N/A	N/A	N/A

12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

SECTION 15: Regulatory information

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia inventory (AIIC)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
Chile inventory	: Not determined.
China inventory (IECSC)	: All components are listed or exempted.
Colombia inventory (INSQUI)	: Not determined.
Europe inventory	: All components are listed or exempted.
Japan inventory	: **Japan inventory (CSCL)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: Not determined.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

SECTION 15: Regulatory information

15.2 Chemical safety assessment : Risk management measures and safety conditions of use are included in the relevant sections of the SDS

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
DMSO = Dimethyl Sulfoxide
EC50 = Half maximal effective concentration
EL50 = median Effective Loading
EUH statement = CLP-specific Hazard statement
HSE = Health, Safety and Environment
IATA = International Air Transport Association
IC50 = Half maximal inhibitory concentration
IDHL = Immediately dangerous to life or health
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = median Lethal Loading
LogKow = logarithm of the octanol/water partition coefficient
M = Mobile
N/A = Not available
NIOSH = National Institute of Occupational Safety and Health
NOAEL = No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
NOEL = No Observed Effect Level
NOELR = No observed Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
OEL = Occupational Exposure Limit
OSHA = Occupational Safety and Health Administration.
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
POP = Persistent Organic Pollutants
polyvinyl alcohol (PVA)
QSAR = Quantitative Structure–Activity Relationship
REL = Recommanded Exposure Limit
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SGG = Segregation Group
STEL = Short Term Exposure Limit
T = Toxic
TLV = Threshold Limit Value
TWA = Time Weight Average
vB = Very Bioaccumulative

SECTION 16: Other information

vM = Very Mobile
VOC = Volatile Organic Compound
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile
Unique Formula Identifier (UFI)
UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications

Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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