## Shell Tetra Oil 2SP

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : Shell Tetra Oil 2SP

Product code : 001J7460

Manufacturer or supplier's details

Supplier's company name, : Shell Lubricants Japan K.K.

address and phone number Pacific Century Place Marunouchi 12F

1-11-1, Marunouchi

Chiyoda-ku Tokyo 100-6212

Japan

Telephone : (+81) 03-3218-1780 Telefax : (+81) 03-3218-1781

Emergency telephone : [Important notice for customer support]

number If you need support for product, please contact our customer

service centre.

Lub Customer Service Centre (Lub CSC)

Tel. 0120-064-315 / Fax. 0120-264-315 (JP Toll free)

E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours only.)

**Contact for Safety Data** 

**Sheet** 

If you have any enquiries about the content of this SDS

please email lubricantSDS@shell.com

Recommended use of the chemical and restrictions on use

Recommended use : Bearing & Circulating Oil

Restrictions on use :

This substance may not be used for any purpose other than

recommended without expert advice

#### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Flammable liquids : Category 4 Aspiration hazard : Category 1

**GHS** label elements

Hazard pictograms

Signal word : Danger

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Hazard statements : PHYSICAL HAZARDS:

H227 Combustible liquid. HEALTH HAZARDS:

H304 May be fatal if swallowed and enters airways.

**ENVIRONMENTAL HAZARDS:** 

Not classified as an environmental hazard under GHS criteria.

Precautionary statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label: Contains distillates (petroleum), hydrotreated light.

## Other hazards which do not result in classification

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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Substance name	CAS-No.	Classification	Concentration (% w/w)
distillates (petroleum), hydrotreated light	64742-47-8	Flam. Liq.4; H227 Asp. Tox.1; H304	0 - 99
Distillates (petroleum), alkylate	64741-73-7	Asp. Tox.1; H304	0 - 99
Butylated hydroxytoluene	128-37-0	Aquatic Chronic1; H410 Aquatic Acute1; H400	0.1 - 0.24

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For explanation of abbreviations see section 16.

#### 4. FIRST-AID MEASURES

If inhaled : No treatment necessary under normal conditions of use.

If symptoms persist, obtain medical advice.

In case of skin contact : Remove contaminated clothing. Flush exposed area with

water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

In case of eye contact : Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If persistent irritation occurs, obtain medical attention.

If swallowed : Call emergency number for your location / facility.

If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

Most important symptoms and effects, both acute and

delayed

: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest

congestion, shortness of breath, and/or fever.

The onset of respiratory symptoms may be delayed for

several hours after exposure.

Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Ingestion may result in nausea, vomiting and/or diarrhoea.

Protection of first-aiders : When adm

When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the

incident, injury and surroundings.

Notes to physician : Potential for chemical pneumonitis.

Call a doctor or poison control center for guidance.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon

dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing

media

: Do not use water in a jet.

Specific hazards during

firefighting

: Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and

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gases (smoke).

Carbon monoxide may be evolved if incomplete combustion

occurs.

Unidentified organic and inorganic compounds.

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Environmental precautions : Avoid contact with skin and eyes.

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth

or other containment material.

Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other

suitable material and dispose of properly.

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

## 7. HANDLING AND STORAGE

## Handling

Technical measures : Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of

this material.

Advice on safe handling : Avoid prolonged or repeated contact with skin.

Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

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Properly dispose of any contaminated rags or cleaning

materials in order to prevent fires.

: If material is handled such that it could be splashed into eyes, Facial protective equipment

protective eyewear is recommended.

Describe contact avoidance,

etc

: Strong oxidising agents.

**Product Transfer** : Proper grounding and bonding procedures should be used

during all bulk transfer operations to avoid static accumulation.

Storage

Other data : Keep container tightly closed and in a cool, well-ventilated

place.

Use properly labeled and closable containers.

Store at ambient temperature.

Packaging material Suitable material: For containers or container linings, use mild

steel or high density polyethylene.

Unsuitable material: PVC.

Container Advice : Polyethylene containers should not be exposed to high

temperatures because of possible risk of distortion.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned			JP OEL JSOH
	Further information: Group 1: carcinogenic to humans			
Oil mist, mineral	Not Assigned	OEL-M (Mist)	3 mg/m3	JP OEL JSOH
	Further information: Substance whose OEL is set based on non-carcinogenic health effects. See III, Group 1: carcinogenic to humans			
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

#### Biological occupational exposure limits

No biological limit allocated.

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#### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

労働者の健康障害を防止するため化学物質の濃度基準値とその適用方法などを定めました (mhlw.go.jp)

## **Engineering measures**

: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

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Practice good housekeeping.

Do not ingest. If swallowed, then seek immediate medical assistance

#### Personal protective equipment

#### Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory protection

: No respiratory protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C

(149°F)].

Hand protection Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. 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 moisturizer is recommended.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

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Eye and face protection If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

Skin and body protection : Skin protection is not ordinarily required beyond standard

work clothes.

It is good practice to wear chemical resistant gloves.

Thermal hazards : Not applicable

#### **Environmental exposure controls**

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid at room temperature.

Colour amber

Odour Threshold Data not available ΡH : Not applicable

-30.0 °C / -22.0 °F pour point

Method: JIS K 2269

Melting / freezing point Data not available Boiling point : Data not available : 90 °C / 194 °F Flash point

Method: ASTM D92 (COC)

Evaporation rate Data not available

Flammability

Flammability (solid, gas) : Not applicable

Flammability (liquids) Combustible liquid.

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : Typical 10 %(V)

Lower explosion limit : Typical 1 %(V)

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Vapour pressure : < 0.5 Pa (20 °C / 68 °F)

estimated value(s)

Relative vapour density : > 1estimated value(s)

Density and / or relative density

Density : 800 kg/m3 (15.0 °C / 59.0 °F)

Method: ASTM D1298

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-

: log Pow: > 6

octanol/water

(based on information on similar products)

Auto-ignition point :  $> 320 \, ^{\circ}\text{C} \, / \, 608 \, ^{\circ}\text{F}$ 

Decomposition temperature : Data not available

Viscosity

Viscosity (Dynamic) : Data not available

Viscosity, kinematic : 2 mm2/s (40.0 °C / 104.0 °F)

Method: JIS K 2283

0.9 mm2/s (100 °C / 212 °F)

Method: JIS K 2283

Particle characteristics

Particle size : Data not available

Data not available

Explosive properties : Classification Code: Not classified.

Oxidizing properties : Data not available

Conductivity : This material is not expected to be a static accumulator.

10. STABILITY AND REACTIVITY

Reactivity : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

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Chemical stability : Stable.

Possibility of hazardous

reactions

: Reacts with strong oxidising agents.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidising agents.

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

#### 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on data on the components and

the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a

whole, rather than for individual component(s).

Information on likely routes of

exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

## Acute toxicity

#### **Product:**

Acute oral toxicity : LD50 rat: > 5,000 mg/kg

Remarks: Low toxicity

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

Remarks: Aspiration into the lungs may cause chemical

pneumonitis which can be fatal.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : LD50 Rabbit: > 5,000 mg/kg

Remarks: Low toxicity

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

#### **Components:**

## distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 Rat, male and female: > 5,000 mg/kg

Method: Test(s) equivalent or similar to OECD Test Guideline

401

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC50 Rat, male and female: > 2 - 10 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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	Method: Test(s) equivalent or simi	lar to OECD Test Guideline
	403	
	Remarks: LC50 greater than near-concentration.	saturated vapour
	Based on available data, the class	ification criteria are not met.
Acute dermal toxicity	: LD50 Rat, male and female: > 2,00	00 mg/kg
	Method: Test(s) equivalent or simi 402	lar to OECD Test Guideline
	Remarks: Based on available data are not met.	, the classification criteria

#### Skin corrosion/irritation

#### **Product:**

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

#### Components:

#### distillates (petroleum), hydrotreated light:

Species: Rabbit

Method: Test(s) equivalent or similar to OECD Test Guideline 404

Remarks: Moderately irritating to skin (but insufficient to classify)., Prolonged/repeated contact

may cause defatting of the skin which can lead to dermatitis.

## Serious eye damage/eye irritation

#### **Product:**

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met

## **Components:**

#### distillates (petroleum), hydrotreated light:

Species: Rabbit

Method: Test(s) equivalent or similar to OECD Test Guideline 405 Remarks: Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

## **Product:**

Remarks: Not a skin sensitiser.

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

#### Components:

## distillates (petroleum), hydrotreated light:

Species: Guinea pig

Method: Test(s) equivalent or similar to OECD Test Guideline 406 Remarks: Based on available data, the classification criteria are not met.

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#### Germ cell mutagenicity

#### **Product:**

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

#### **Components:**

#### distillates (petroleum), hydrotreated light:

Genotoxicity in vitro

 Method: Test(s) equivalent or similar to OECD Guideline 471 Remarks: Based on available data, the classification criteria are not met

: Method: Test(s) equivalent or similar to OECD Test Guideline

473

Remarks: Based on available data, the classification criteria

are not met.

: Method: Test(s) equivalent or similar to OECD Test Guideline

476

Remarks: Based on available data, the classification criteria

are not met.

: Test species: MouseMethod: Test(s) equivalent or similar to

OECD Test Guideline 474

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity-

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

#### Carcinogenicity

#### **Product:**

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

#### Components:

#### distillates (petroleum), hydrotreated light:

Species: Rat, (male and female) Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline 453

Remarks: Weight of evidence does not support classification as a carcinogen, Tumours

produced in animals are not considered relevant to humans., Not a carcinogen.

Species: Mouse, (male and female) Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline 453

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Remarks: Weight of evidence does not support classification as a carcinogen, Tumours produced in animals are not considered relevant to humans., Not a carcinogen.

Carcinogenicity - Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

#### Reproductive toxicity

**Product:** 

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are

not met.

## **Components:**

## distillates (petroleum), hydrotreated light:

Species: Rat

Sex: male and female Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline

415.

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal development

: Species: Rat, female Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline

414

Remarks: Based on available data, the classification criteria

are not met.

Species: Rat, female

Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline

414

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity -

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

#### STOT - single exposure

#### **Product:**

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

#### **Components:**

#### distillates (petroleum), hydrotreated light:

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

#### STOT - repeated exposure

#### **Product:**

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

#### **Components:**

#### distillates (petroleum), hydrotreated light:

Remarks: Based on available data, the classification criteria are not met., Kidney: caused kidney effects in male rats which are not considered relevant to humans

#### Repeated dose toxicity

#### **Components:**

#### distillates (petroleum), hydrotreated light:

Rat, male and female: Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs: No specific target organs noted

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to

humans

Rat, male and female: Application Route: Inhalation Test atmosphere: vapour

Method: Test(s) equivalent or similar to OECD Test Guideline 413

Target Organs: No specific target organs noted

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to

humans

#### Aspiration toxicity

## **Product:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

#### Components:

## distillates (petroleum), hydrotreated light:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

#### **Further information**

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#### **Product:**

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

#### **Components:**

#### distillates (petroleum), hydrotreated light:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

#### 12. ECOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically

for this product.

Information given is based on a knowledge of the components

and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

#### **Ecotoxicity**

#### Product:

Toxicity to fish (Acute

toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to crustacean (Acute

toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to algae/aquatic plants (Acute toxicity)

Remarks: LL/EL/IL50 > 100 mg/l

Practically non toxic:

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

Toxicity to fish (Chronic

toxicity)

: Remarks: Based on available data, the classification criteria

are not met.

Toxicity to crustacean (Chronic toxicity)

: Remarks: Based on available data, the classification criteria

are not met.

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Based on available data, the classification criteria

are not met.

#### Components:

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distillates (petroleum), hydrotreated light:

Toxicity to fish (Acute

toxicity)

: LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute

toxicity)

EL50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic

plants (Acute toxicity)

EL50 (Pseudokirchneriella subcapitata (algae)): > 1,000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Remarks: Data not available

Remarks: Data not available

Remarks: Data not available

Toxicity to microorganisms

(Acute toxicity)

Toxicity to fish (Chronic

toxicity)

Toxicity to crustacean(Chronic toxicity)

Butylated hydroxytoluene:

Toxicity to fish (Acute

toxicity)

: LL50 (Oryzias latipes (Orange-red killifish)): 1.1 mg/l

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to crustacean (Acute

toxicity)

EC50 (Daphnia magna (Water flea)): 0.48 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Guideline 202

M-Factor (Short-term (acute)

aquatic hazard)

Toxicity to fish (Chronic

toxicity)

: NOEC: 0.53 mg/l

: 1

Exposure time: 30 d

Species: Oryzias latipes (Orange-red killifish)

Method: Test(s) equivalent or similar to OECD Guideline 210

Toxicity to

crustacean(Chronic toxicity)

NOEC: 0.069 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: Test(s) equivalent or similar to OECD Guideline 211

M-Factor (Long-term (chronic) aquatic hazard)

: 1

Persistence and degradability

Product:

Remarks: Not readily biodegradable., Major constituents are Biodegradability

inherently biodegradable, but contains components that may

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persist in the environment.

**Components:** 

distillates (petroleum), hydrotreated light:

Biodegradability : Biodegradation: 69 %

Exposure time: 28 d

Method: OECD Test Guideline 301F Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

Butylated hydroxytoluene:

Biodegradability : Exposure time: 62 d

Method: OECD Test Guideline 309 Remarks: Degradation half life

5.65 days

**Bioaccumulation** 

**Product:** 

Bioaccumulation : Remarks: Contains components with the potential to

bioaccumulate.

Partition coefficient: n-

octanol/water

: log Pow: > 6Remarks: (based on information on similar

products)

Components:

distillates (petroleum), hydrotreated light:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

Mobility in soil

**Product:** 

Mobility : Remarks: Liquid under most environmental conditions., If it

enters soil, it will adsorb to soil particles and will not be

mobile.

Remarks: Floats on water.

**Components:** 

distillates (petroleum), hydrotreated light:

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil

particles and will not be mobile.

Other adverse effects

**Product:** 

Additional ecological

information

: Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be

released to air in any significant quantities under normal

conditions of use.

Poorly soluble mixture., Causes physical fouling of aquatic

organisms.

Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

**Components:** 

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#### distillates (petroleum), hydrotreated light :

Results of PBT and vPvB assessment

: The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

#### Hazardous to the ozone layer

Not applicable

#### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Chemicals (residual waste)

: Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated containers and packaging

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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Local legislation Remarks

: Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

#### 14. TRANSPORT INFORMATION

#### Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

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## International Regulations

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

#### Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

#### 15. REGULATORY INFORMATION

#### **Related Regulations**

#### Fire Service Law

Group 4, Type 3 petroleums, Water insoluble liquid, (2000 litre), Hazardous rank III

#### Chemical Substance Control Law

Priority Assessment Chemical Substance

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Chemical name	Number	
2,6-Di-tert-butyl-4-methylphenol	64	

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Substances Prevented From Impairment of Health

Not applicable

## Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

## Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

## Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
2,6-Di-tert-butyl-4-cresol	262	>=0.1 - <1

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#### Substances Subject to be Indicated Names

Not applicable

#### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

#### Ordinance on Prevention of Lead Poisoning

Not applicable

#### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

## **Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

# Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

#### Poisonous and Deleterious Substances Control Law

Not applicable

## Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

#### Vessel Safety Law

Not applicable

## **Aviation Law**

Not applicable

#### Marine Pollution and Sea Disaster Prevention etc Law

Not classified as marine pollutant

#### **Water Pollution Control Law**

Oil emissions regulations (Law Art. 2-5, Enforcement Order Art. 3-4)

#### Waste Disposal and Public Cleansing Law

Industrial waste

## The components of this product are reported in the following inventories:

REACH : Not established.

TSCA : All components listed.

ENCS : All components listed.

## **16. OTHER INFORMATION**

#### **Full text of H-Statements**

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
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H410 Very toxic to aquatic life with long lasting effects.

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## Full text of other abbreviations

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard Flam. Liq. Flammable liquids

#### **Abbreviations and Acronyms**

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory: TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### **Further information**

Training advice : Provide adequate information, instruction and training for

operators.

Other information : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

Sources of key data used to compile the Safety Data

Sheet

: The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU

IUCLID date base, EC 1272 regulation, etc).

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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