

According to Industry Code of Practice

SDS #: 083287 PRESLIA 46

Issuing date: 2015-04-13 **Revision Date:** 2019-10-02 **Version** 1.02

1. IDENTIFICATION

Product identifier

Product name PRESLIA 46

Other means of identification

Product Code(s) 083287

Number 693 Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Turbine oil.

Details of the supplier of the safety data sheet

Supplier TOTAL OIL MALAYSIA SDN BHD

2nd Level, Wisma Kemajuan

No. 2 Jalan 19/1B 46300 Petaling Jaya

Selangor Darul Ehsan, Malaysia

Tel: +60 3 7711 2000 Fax: +60 3 7711 2001

For further information, please contact:

Contact Point HSE

E-mail Address ms.ap-sds@total.com

Emergency telephone number

Emergency telephone Malaysia: +60 3 6207 4347

Asia-Pacific: +65 3158 1074

2. HAZARDS IDENTIFICATION

Classification

The product is not classified as hazardous according to The Industry Code of Practice on Chemical Classification and Hazard Communication

Label elements

The product is not classified as hazardous according to The Industry Code of Practice on Chemical Classification and Hazard



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Communication

Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental propertiesThe product may form an oil film on the water surface that may stop the oxygen exchange.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Does not contain hazardous substances above regulatory disclosure thresholds.

Chemical nature Mineral oil of petroleum origin.

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may

cause skin damage. Take victim immediately to hospital.

Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper



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respiratory medical device.

Most important symptoms/effects, acute and delayed

Skin contactNot classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent.

Eye contact Not classified based on available data.

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

<u>Unsuitable Extinguishing Media</u> Do not use a solid water stream as it may scatter and spread fire.

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans,

Nitrogen oxides (NOx), Phosphorous oxides.

Special Protective Equipment for

Firefighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing

water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

Environmental precautions



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General Information Do not allow material to contaminate ground water system. Prevent entry into waterways,

sewers, basements or confined areas. Local authorities should be advised if significant

spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containmentDike to collect large liquid spills. If necessary dike the product with dry earth, sand or

similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil

contamination, remove contaminated soil for remediation or disposal, in accordance with

local regulations.

Other information

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling For personal protection see section 8. Use only in well-ventilated areas. Do not breathe

vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical

contacts. Store at room temperature. Protect from moisture.

Materials to Avoid Strong oxidizing agents.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits 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).

Legend See section 16.

Appropriate engineering controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the

recommended equipment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE)

recommendations apply to the product ITSELF. In case of mixtures or formulations, it is

suggested that you contact the relevant PPE suppliers.

Respiratory protectionNone under normal use conditions. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387): Type A/P1. Warning! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields. EN 166.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type

4/6.

Hand Protection Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact

with the product, it is recommended to wear gloves complying with EN 420 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. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance limpid

Color colorless To yellow

Physical State @20°C liquid

Odor Characteristic

Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

pH Not applicableMelting point/range Not applicable

Boiling point/boiling range No information available

Flash point 236 °C ASTM D92

457 °F ASTM D92.

Evaporation rate No information available

Flammability Limits in Air

upperNo information availableLowerNo information availableVapor PressureNo information available

Vapor densityNo information availableRelative density0.8638@ 15 °C

Density 863.8 kg/m³ @ 15 °C
Water solubility Insoluble

Solubility in other solvents

logPow

No information available
No information available
No information available
No information available

Decomposition temperatureNo information availableViscosity, kinematic45.16 mm2/sWo information availableWo information availableASTM D445

Explosive properties Not explosive Oxidizing Properties Not applicable

Possibility of hazardous reactions None under normal processing

Other information

Freezing Point No information available

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10. STABILITY AND REACTIVITY

Reactivity None under normal processing.

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat

and sparks.

<u>Incompatible materials</u> Strong oxidizing agents.

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans,

Nitrogen oxides (NOx), Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Symptoms No information available.

Skin contact Not classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent.

Eye contact Not classified based on available data.

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

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



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Acute toxicity - Product Information

Oral Not classified based on available data.

ATEmix (oral) > 5,000.00 mg/kg

Dermal Not classified based on available data.

ATEmix (dermal) > 5,000.00 mg/kg

Inhalation Not classified based on available data.

ATEmix (inhalation-gas) > 20,000.00 mg/l ATEmix (inhalation-dust/mist) > 5.00 mg/l ATEmix (inhalation-vapor) > 20.00 mg/l

Acute toxicity - Component Information

No information available

Skin corrosion/irritation

Not classified based on available data.

Serious eye damage/eye irritation

Not classified based on available data.

Sensitization

Not classified based on available data.

Germ Cell Mutagenicity

Not classified based on available data.

Carcinogenicity Not classified based on available data.

Reproductive toxicity Not classified based on available data.

Target Organ Effects (STOT) None known.

STOT - single exposure

Not classified based on available data.

STOT - repeated exposure

Not classified based on available data.

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

Aspiration hazard Not classified based on available data.



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12. ECOLOGICAL INFORMATION

Ecotoxicity Not classified based on available data

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

No information available

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

No information available

Effects on terrestrial organisms No information available.

Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility



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Air Loss by evaporation is limited

Water The product is insoluble and floats on water

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Should not be released into the environment. Do not empty into drains. Dispose of in

accordance with all applicable national environmental laws and regulations. Where possible

recycling is preferred to disposal or incineration.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information Refer to section 8 for safety and protective measures for disposal personnel

14. TRANSPORT INFORMATION

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

15. REGULATORY INFORMATION

Regulatory information

Malaysia

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations: Complies

International Inventories
All the substances contained in this product are listed or exempted from listing in the

following inventories: Philippines (PICCS) China (IECSC) Korea (KECL) Japan (ENCS) Australia (AICS)



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Canada (DSL/NDSL) U.S.A. (TSCA)

16. OTHER INFORMATION

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

Legend

Section 8

OEL = Occupational Exposure Limit

TWA: Time Weight Average STEL: Short Time Exposure Limit PEL: Permissible exposure limit REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer * Skin designation

Ceiling: Maximum limit value

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Revision Note*** Indicates updated section.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet