

MSDS: 45639-0830E31EEN

Date Prepared: 2010/07/01 Date Revised: 2013/08/30

Product Name:

DENSO OIL9

1. Identification of the substance/mixture and of the company/undertaking

Product Name:

DENSO OIL9

Identification of the

JX Nippon Oil & Energy Corporation

supplier:

Address:

6-3, Otemachi 2-Chome, Chiyoda-ku, Tokyo, 100-8162 Japan

Charge section:

Lubricants Quality Assurance Group

(TEL:+81 3-6275-5158)

2. Hazards identification

hazard category

Category

Flammable liquids

No Classification

Specific target organ systemic toxicity

No Classification

following single exposure

Specific target organ systemic toxicity

No Classification

following repeated exposure

No Classification

Aspiration hazard

LABEL ELEMENTS

Precautionary pictograms:

Not applicable

Signal word: Hazard Statement: Not applicable Not applicable

Precautionary Statements:

Prevention Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

3. Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt.%
Base 0i1(s)	90-99
Additives	<10
2,6-Di-tert-Butyl-4-Cresol	0. 1-0. 9

4. First-aid measures

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Cover the body with blankets to keep warm and quiet. If you feel

unwell, seek medical advice.

Skin Contact:

Immediately flush skin with large amounts of water.

Wash contaminated clothing before reuse.

If skin irritation occurs : Get medical advice/attention.



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Eve Contact:

Rinse with clean water carefully for several minutes. Remove contact lenses if present and if removal is easy, then continue rinsing. Rinse for 15 minutes at a minimum and seek medical

Ingestion:

Do not induce vomiting. Drink [one glass] [two glasses] of water.

Call a physician [or poison control

center] immediately.

5. Fire-fighting measures

Suitable Extinguishing Media:

Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam, and dry sand are effective.

Extinguishing Media to Avoid:

Use of straight steam of water can cause a risk of spreading

fire.

Specific hazards arising from the

In some cases of fire, may release irritant gases.

chemical:

When burnt, may generate carbon monoxide and other toxic gases.

Fire Fighting:

Spray water to the surrounding facilities for cooling.

Keep unauthorized persons off the site of occurrence of fire and

the surroundings.

Even after extinction, cool containers thoroughly with plenty of

water.

Special protective equipment and precautions for fire fighters:

Wear fire/flame resistant/retardant clothing.

Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious

protective equipment and gloves.

Use air-breathing apparatus and protective clothing whenever

necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment when working.

Remove nearby potential ignition sources immediately.

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

Do not touch or walk through spillage.

Pay attention to the site of spillage, which is slippery.

Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill to

flow to street drains, sewer systems, and rivers.

At sea, install oil spill containment booms to prevent spreading

of spills and absorb with absorption mat or other proper

materials.

Methods and materials for containment and cleaning up:

Environmental precautions:

In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper

materials.

In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty

containers to the extent possible.



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Prevention of second accident:

In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and

spreading of spillage.

Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely,

and ventilate and clean the site and the surroundings.

7. Handling and storage

Handling

Technical Measures:

Keep away from any possible contact with sparks, open flames, and

high-temperature materials, and do not allow release of vapor

without justification.

Use pumps or other proper equipment for taking out from

containers. Do not siphon with your mouth using a tube. Do not

drink.

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

In case of vapor/mist dispersion, install a closed system, local ventilation system, and/or other proper equipment for the sources

of vapor/mist generation.

Avoid rough handling of containers such as falling, dropping,

exposing to shock, and dragging.
Maintain adequate ventilation when handling indoors.

Ventilation

requirements:

Precautions:

Wash hands and face thoroughly after handling.

Be careful with fire.

Precautions for safe

handling:

Avoid falling, dropping, exposing to shock, or dragging of

containers.

Wear protective gloves when opening containers to eliminate a

risk of hand injury.

Storage

Storage Conditions:

Store in a well ventilated, cool, dry, dark place, protecting

from direct sunlight and keeping away from any potential ignition

sources and high-temperature materials.

Store tightly stopped after use to prevent possible contamination

with dust and moisture.

Preferably store locked up in a proper storage area.

Safety adequate

container materials:

Use spill-proof containers that are free of damage/corrosion.

8. Exposure controls/personal protection

Appropriate engineering controls:

In case of mist generation, enclose the source of mist

generation, or install a ventilation system.

Install eye cleaning and body cleaning equipment near the

handling site.



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Control parameters

Ingredient Name	Japan Society for Occupational ACGIH		
	Occupational Exposure Limits	TLV-STEL	TLV-TWA
Base 0il(s)	None established ppm, None established mg/m3	None established ppm, None established mg/m3	None established ppm, None established mg/m3
2,6-Di-tert-Butyl-4-Cresol	None established ppm,	None established ppm, None established mg/m3	None established ppm, 2mg/m3(2,6-Di-tert-Butyl-4-Cresol)

Personal Protective Equipment

Respiratory Protection: Not needed under normal conditions, but wear a gas mask (against

organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resistant

hand protection.

Eye/face protection:

Skin Protection:

In case of exposure to splashes, wear ordinary type goggles. In case of handling over a prolonged period of time or in case of

exposure to oil, wear oil-resistant, long-sleeved work clothing.

Hygiene Measures:

Take off contaminated clothing and wash thoroughly before reuse.

Wash hands thoroughly after handling.

9. Physical and chemical properties

Product

Physical state:

Liquid

Form:

Liquid

Color: Odor:

Light yellow Slight odor

Melting point/freezing

Pour Point-30(℃)

point:

Initial boiling point

Initial boiling point - End point No data

and boiling range: Flash point:

220 (°C) Cleveland Open Cup

Upper/lower flammability No data.

or explosive limits:

Vapour density:

No data.

Density (g/cm3):

1.061(15℃) water: Insoluble.

Solubility: Partition coefficient:

No data.

n-octanol/water:

Decomposition

No data.

temperature:

10. Stability and reactivity



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Chemical stability:

Possibility of hazardous

Incompatible materials:

Hazardous decomposition

reactions:

Conditions to avoid:

Stable when stored or preserved in a dark place at room temperature. Keep away from any possible contact with strong oxidizing agents.

Contact with incompatible hazard substances

Prolonged heating, open flames, and ignition sources

Use care to keep away from any possible contact with halogens, strong

acids, alkalis, and acidifying substances.

When burnt, may release carbon monoxide and other gases.

products:

11. Toxicological information

Product

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory sensitization:

Skin sensitization:

Mutagenicity:

Carcinogenicity:

Reproductive toxicity:

Target organ effect/Single exposure:

Target organ effect/Multi

exposure:

Respiratory toxic:

For mixtures, hazard category was identified based on

the classification criteria for mixtures.

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the classification criteria for mixtures.

Ingredient

2, 6-Di-tert-Butyl-4-Cresol

Acute toxicity (oral): Acute toxicity (dermal):

Skin corrosion/irritation: Serious eye damage/irritation:

Respiratory sensitization:

Skin sensitization:

Mutagenicity: Carcinogenicity: Respiratory toxic: LD50: 890~5800 mg/kg[rat], LD50: 890 mg/kg[rat]

LD50: > 2000 mg/kg[rat]

Mild [rabbit], Mild [rabbit], Mild [rabbit] Mild [rabbit], Effect on person: not entered

None [guinea pig]

[guinea pig] , Positive [human] Negative

Negative, Negative, Negative

IARC:3, ACGIH:A4, ACGIH:A4, IARC:3 Effect on person: not entered



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12. Ecological information

Product

Ecotoxicity

Fish acute toxicity:

For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Algae acute toxicity:

For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Fish chronic toxicity:

For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Algae chronic toxicity:

For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Ingredient

2,6-Di-tert-Buty1-4-Cresol

Ecotoxicity

Fish acute toxicity:

,1 t y

48hLC50: 5 mg/L[Oryzias latipes]

48hrEC50: 0.84 mg/L

Daphnia acute toxicity: Algae acute toxicity:

72hEC50: 6 mg/L[Pseudokirchneriella subcapitata],

72hEC50: > 0.42 mg/L[Desmodesmus subspicatus]

Bioaccumulative potential:

230 - 2500 BCF method: OECD 305C

13. Disposal considerations

Disposal methods:

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Every customer/user of the product should dispose of industrial waste on its own

responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of industrial

waste for proper disposal.

Before disposal of used container, remove contents completely.

14. Transport information

IMDG

UN classification:

Not applicable

Specific security precaution and condition of transportation:

Transport containers without causing any significant friction or

shaking.

15. Regulatory information

Korea (KECL):

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

Australia (AICS) :

In the case where one or more components are not listed or, even if listed,

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Canada (DSL):

In the case where one or more components are not listed or, even if listed,

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or notification is required.

China(IECSC):

All components are listed or exempted.

EU (REACH):

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

New Zealand(NZIoC):

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

USA (TSCA):

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

Philippines (PICCS):

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

Taiwan:

In the case where one or more components are not listed or, even if listed,

in the case of importing to the country or area concerned, an application

or notification is required.

16. Other information

Disclaimer

We at JX Nippon Oil & Energy Corporation have prepared the copyrighted Safety Data Sheet to provide reference information on the hazardous chemical product of interest for our customers/users to ensure secure and safe handling.

We would like every customer/user of the product to refer to the information and understand the necessity of taking appropriate measures for the actual handling conditions on their own responsibilities for optimum practical application of the product of interest.

Consequently, the Safety Data Sheet is not intended to guarantee the safety of the product referenced to herein.

