



SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

DAPHNE HERMETIC OIL FVC32D

| Version | Revision Date: | SDS Number: | Date of last issue: 2017/01/11 |
|---------|----------------|-------------|---------------------------------|
| 1.1 | 2019/11/29 | 10000003610 | Date of first issue: 2017/01/11 |

1. PRODUCT AND COMPANY IDENTIFICATION

| Product name | : DAPHNE HERMETIC OIL FVC32D |
|-------------------------------|--|
| Product code | : 32450850 |
| Manufacturer or supplier's de | etails |
| Company | : Idemitsu Kosan Co., Ltd. |
| Address | : 1-1 3-Chome Marunouchi Chiyoda-ku Tokyo, 100-8321, Japan |
| Telephone | : +81-3-3213-3143 |
| Emergency telephone | : +86 532 8388 9090 |
| Telefax | : +81-3-3211-5343 |
| | |

Recommended use of the chemical and restrictions on use

| Recommended use | : | Lubricant |
|-----------------|---|-----------|
|-----------------|---|-----------|

Restrictions on use

None known.

2. HAZARDS IDENTIFICATION

Emergency Overview

| Appearance Color Odor | : | transparent colorless characteristic |
|---------------------------------------|------|---|
| May cause an allergic skin rea | ctio | n. Harmful to aquatic life with long lasting effects. |
| GHS Classification | | |
| Skin sensitization | : | Category 1 |
| Short-term (acute) aquatic hazard | : | Category 3 |
| Long-term (chronic) aquatic hazard | : | Category 3 |
| GHS label elements | | |

| Hazard pictograms : | | |
|---|---|--|
| Signal Word : | Warning | |
| Hazard Statements : | H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. | |
| Precautionary Statements : | Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves. | |
| | Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. | |
| | Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. | |
| Physical and chemical hazards Not classified based on available information. | | |

Health hazards

May cause an allergic skin reaction.

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|------------------------------------|-----------|-----------------------|
| tris(methylphenyl) phosphate | 1330-78-5 | >= 1 - < 2.5 |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | >= 0.25 - < 1 |
| [[(2-ethylhexyl)oxy]methyl]oxirane | 2461-15-6 | >= 0.1 - < 1 |

No hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|--------------------------|---------|-----------------------|
| Polyether compound | - | >= 95 |
| Lubricating oil additive | - | < 0.1 |

4. FIRST AID MEASURES

| General advice | : | Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
|---|---|--|
| If inhaled | : | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : | If on skin, rinse well with water. |
| In case of eye contact | : | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : | May cause an allergic skin reaction. |

5. FIRE-FIGHTING MEASURES

| Unsuitable extinguishing media | : | High volume water jet |
|--|---|---|
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | No hazardous combustion products are known |
| Specific extinguishing methods | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment. |
|---|---|--|
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |

| Methods and materials for : containment and cleaning up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. |
|---|---|
|---|---|

7. HANDLING AND STORAGE

Handling

| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
|---|---|--|
| Advice on safe handling | : | Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. |
| Avoidance of contact | : | Strong acids and strong bases |
| Storage | | |
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------------------------|----------------|---|---|------------------|
| tris(methylphenyl) phosphate | 1330-78-5 | PC-TWA | 0.3 mg/m3 | GBZ 2.1- 2007 |
| | Further inform | ation: Skin | | |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | TWA (Inhalable fraction and vapor) | 2 mg/m3 | ACGIH |

Personal protective equipment

| Respiratory protection | : | In the case of vapor formation use a respirator with an approved filter. |
|------------------------|---|--|
| Eye/face protection | : | Eye wash bottle with pure water Tightly fitting safety goggles |

| Skin and body protection | : | Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
|--------------------------|---|--|
| Hand protection | | |
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Hygiene measures | : | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : transparent |
|---|--|
| Physical state | : liquid |
| Color | : colorless |
| Odor | : characteristic |
| Pour point | : -47.5 °C |
| Initial boiling point and boiling range | : No data available |
| Flash point | : 178 °C Method: Cleveland open cup |
| Relative vapor density | : No data available |
| Density | : 0.9252 g/cm3 (15 °C) |
| Solubility(ies) Water solubility | : insoluble |
| Viscosity Viscosity, kinematic | : 32.40 mm2/s (40 °C) |

10. STABILITY AND REACTIVITY

| Reactivity | : N | No decomposition if stored and applied as directed. |
|------------------------------------|-----|---|
| Chemical stability | : N | No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : N | No decomposition if stored and applied as directed. |
| Conditions to avoid | : N | No data available |
| Incompatible materials | : 5 | Strong acids and strong bases |
| Hazardous decomposition products | : N | No hazardous decomposition products are known. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction. Respiratory sensitization: Not classified based on available information.

Product:

Remarks: May cause sensitization of susceptible persons by skin contact or by inhalation of aerosol or dust.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

tris(methylphenyl) phosphate:

M-Factor (Acute aquatic : 1 toxicity)

| Persistence and degradability No data available | |
|---|--|
| Bioaccumulative potential No data available | |
| Mobility in soil No data available | |
| Other adverse effects | |
| Product: Additional ecological : information | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects. |

13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|------------------------|--|
| Waste from residues | The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. |
| Contaminated packaging | Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. |

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

GB 6944/12268 Not regulated as a dangerous good

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

The ingredients of this product are reported in the following inventories:

ENCS : Listed

TSCA

: Listed

| EINECS | : Listed |
|--------|--|
| REACH | : For further information, please contact |
| DSL | Conditional registration (The annual export quantity is limited) |
| AICS | : Listed |
| KECI | : Listed |
| PICCS | : Not listed |
| IECSC | : Listed |
| TCSI | : Listed |
| | |

16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; 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

Date format

: yyyy/mm/dd

Disclaimer

The information provided in this Material 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

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