

SAFETY DATA SHEET**DAPHNE ALPHA GEAR 220**

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DAPHNE ALPHA GEAR 220
Product code : 32059051

Manufacturer or supplier's details

Company : Apollo (Thailand) Co., Ltd.
Address : Amatanakorn Industrial Estate(Phase6) 700/623 Moo4
Bankao,Panthong, Chonburi 20160 Thailand
Telephone : +66-3845-6900
Emergency telephone number : +001 800 120 666 751(toll-free access from Thailand only)
Telefax : +66-3821-0099

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant
Restrictions on use : None known.

2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|----------------------------|----------|-----------------------|
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | >= 0.1 - < 0.25 |

No hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|-----------------------|---------|-----------------------|
| Mineral oil | - | < 2 |
| Synthetic hydrocarbon | - | >= 80 - < 90 |
| Ester | - | >= 5 - < 15 |

| | | |
|--------------------------|---|-----|
| Lubricating oil additive | - | < 2 |
|--------------------------|---|-----|

4. FIRST AID MEASURES

| | | |
|---|---|---|
| General advice | : | 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 eye contact | : | Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. |
| If swallowed | : | 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. |
| Most important symptoms and effects, both acute and delayed | : | None known. |

5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Hazardous combustion products | : | No hazardous combustion products are known |
| Specific extinguishing methods | : | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|--|
| Methods and materials for containment and cleaning up | : | Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal. |
|---|---|--|

7. HANDLING AND STORAGE

| | | |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. |
| Conditions for safe storage | : | Electrical installations / working materials must comply with the technological safety standards. |
| Materials to avoid | : | No materials to be especially mentioned. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------------------|----------|---------------------------------------|---|-------|
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | TWA (Inhalable fraction and vapor) | 2 mg/m ³ | ACGIH |

Personal protective equipment

| | | |
|--------------------------|---|---|
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Eye protection | : | Safety glasses |
| Skin and body protection | : | Protective suit |
| Hygiene measures | : | General industrial hygiene practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|--------------------------------------|
| Appearance | : | transparent |
| Physical state | : | liquid |
| Colour | : | light yellow |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Pour point | : | -45.0 °C |
| Melting point/range | : | No data available |
| Drop point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | 254 °C Method: Cleveland open cup |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 0.8470 g/cm ³ (15 °C) |

| | |
|----------------------|------------------------------------|
| Solubility(ies) | |
| Water solubility | : insoluble |
| Viscosity | |
| Viscosity, kinematic | : 219.6 mm ² /s (40 °C) |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | : No decomposition if stored and applied as directed. |
| Chemical stability | : No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : Stable under recommended storage conditions. No hazards to be specially mentioned. |
| Conditions to avoid | : No data available |
| Incompatible materials | : Strong acids and strong bases |
| Hazardous decomposition products | : 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.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

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**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

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.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Hazardous Substance Act B.E. 2535 : Not applicable

Emergency Decree on Controlling the Use of Volatile Substances B.E. 2533 : Not applicable

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

ENCS : Listed

TSCA : Listed

| | |
|--------|---|
| EINECS | : Listed |
| REACH | : For further information, please contact |
| DSL | : Listed |
| AICS | : Listed |
| KECI | : Listed |
| PICCS | : Listed |
| IECSC | : Listed |
| TCSI | : Listed |
| NZIoC | : 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; CPR - Controlled Products Regulations; 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

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