SAFETY DATA SHEET

DAPHNE SUPER HYDRO 46ST

Version	Revision Date:	SDS Number:	Date of last issue: 2025/06/04
1.3	2025/07/14	100000011503	Date of first issue: 2020/04/07

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DAPHNE SUPER HYDRO 46ST

Product code : AT_556

Manufacturer or supplier's details

Company : Idemitsu Apollo (Thailand) Co., Ltd.

Address : Amata City Chonburi Industrial Estate (Phase6) 700/623 Moo 4, Bankao, Panthong, Chonburi 20160, Thailand

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Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : None known.

2. HAZARDS IDENTIFICATION

GHS Classification

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms : None

Signal Word : None

Hazard Statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0	>= 0.25 -< 1

No hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Mineral oil	-	>= 90
Lubricating oil additive	-	< 6

Total mineral oil concentration(% w/w) : >= 90

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.

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5. FIRE-FIGHTING MEASURES

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

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

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	:	Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m3	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
Color	:	light yellow
Odor	:	slight
Pour point	:	-46.0 °C

Initial boiling point and boiling range	:	No data available
Flash point	:	250 °C Method: Cleveland open cup
Density	:	0.8519 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Viscosity		
Viscosity, kinematic	:	44.57 mm2/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.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.
Not classified due to lack of data.

Skin corrosion/irritation

Not classified based on available information.
Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified based on available information.
Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified based on available information.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified based on available information.
Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.
Not classified due to lack of data.

Reproductive toxicity

Not classified based on available information.
Not classified due to lack of data.

STOT-single exposure

Not classified based on available information.
Not classified due to lack of data.

STOT-repeated exposure

Not classified based on available information.
Not classified due to lack of data.

Aspiration toxicity

Not classified based on available information.
Not classified due to lack of data.

Further information

Product:

Remarks : No data available

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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 : 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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

Special precautions for user

Remarks	:	Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Hazardous Substance Act	:	Conditions of restriction for the following entries should be considered: Not applicable
Emergency Decree on Controlling the Use of Volatile Substances	:	Not applicable

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

ENCS	:	Listed
TSCA	:	Listed
EINECS	:	Listed
REACH	:	For further information, please contact Idemitsu.
DSL	:	Listed

AIIC	:	Listed
KECI	:	Listed
PICCS	:	Not listed
IECSC	:	Listed
TCSI	:	Listed

16. OTHER INFORMATION

Revision Date	:	2025/07/14
Date format	:	yyyy/mm/dd

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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AIIC - 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

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