



IDEMITSU

SAFETY DATA SHEET

Issue Date 09-Jul-2014

Revision date 25-Nov-2015

Version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code 32921020
Product name DAPHNE ALPHA CLEANER H

Pure substance/mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricant

Uses advised against Not Applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer

Idemitsu Kosan Co., Ltd.
1-1 3-Chome
Marunouchi
Chiyoda-ku Tokyo, 100-8321, Japan
Telephone: +81-3-3213-3143
Fax: +81-3-3211-5343

Supplier

Idemitsu Lube (Malaysia) Sdn. Bhd.
20-21, Lorong Teknologi B
Nouvelle Industrial Park
Taman Sains Selangor 1
47800, Petaling Jaya Selangor Malaysia
Telephone: +60-3-6157-9529
Fax: +60-3-6157-9636

For further information, please contact

1.4. Emergency telephone number

Emergency Telephone
24 Hour Emergency Phone Number
+60 3 6207 4347

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|----------------------------------|------------|
| Aspiration toxicity | Category 1 |
| skin corrosion/irritation | Category 2 |

2.2. Label elements

Product identifier

Contains ALKANES, C10-13-ISO-, ALKANES, C13-16-ISO-



SIGNAL WORD

Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

Contains**Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 - Do NOT induce vomiting

P405 - Store locked up

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

2.3. Other hazards

Toxic to aquatic life Combustible liquid

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not Applicable

3.2 Mixtures

| chemical name | CAS No | weight-% |
|----------------------|------------|----------|
| ALKANES, C13-16-ISO- | 68551-20-2 | 80 - 90 |
| ALKANES, C10-13-ISO- | 68551-17-7 | 10 - 20 |

SECTION 4: First aid measures**4.1. Description of first aid measures****General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

INHALATION

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Skin Contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.

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. If symptoms persist, call a physician.

INGESTION

Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

CO2, dry chemical, dry sand, alcohol-resistant foam. Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition Risk of ignition

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Use personal protective equipment as required
Remove all sources of ignition
Evacuate personnel to safe areas
Keep people away from and upwind of spill/leak
Pay attention to flashback
Take precautionary measures against static discharges

For emergency responders

Use personal protection recommended in Section 8

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

SECTION 7: Handling and storage

7.1. Precautions for safe handling**Advice on safe handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

7.3. Specific end use(s)**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye/face protection**

Tight sealing safety goggles.

Hand Protection

Wear protective nitrile rubber gloves.

Skin and body protection

Suitable protective clothing. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Antistatic footwear. Gloves made of plastic or rubber.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | | |
|-----------------------|-----------|-----------------------|--------------------------|
| Physical state | liquid | Odor | characteristic |
| Appearance | clear | Odor Threshold | No information available |
| Color | colorless | | |

Property**Values****Remarks • Method**

pH
melting point

No information available
No information available

| | | |
|---------------------------|--------------------------|----------------------------------|
| flash point | 87 °C / 189 °F | Pensky-Martens Closed Cup (PMCC) |
| Water solubility | Insoluble in water | |
| Kinematic viscosity 40°C | 2.560 mm ² /s | |
| Kinematic viscosity 100°C | | |

9.2. Other information

| | |
|----------------|--------------------------|
| Pour point | -60.0 °C |
| Dropping point | |
| Density @15°C | 0.7850 g/cm ³ |

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available.

10.2. Chemical stability

Stable under normal conditions

Explosion Data

| | |
|----------------------------------|---------------------------|
| Sensitivity to Mechanical Impact | none. |
| Sensitivity to Static Discharge | No information available. |

10.3. Possibility of hazardous reactions**Possibility of Hazardous Reactions**

None under normal processing.

10.4. Conditions to avoid

Strong oxidizing agents Heat, flames and sparks

10.5. Incompatible materials

Strong oxidizing agents
Strong bases

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

| | |
|---------------------|--------------------------|
| INHALATION | No data available. |
| Eye contact | No data available. |
| Skin Contact | Avoid contact with skin. |
| INGESTION | No data available. |

Unknown Acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--|--|
| skin corrosion/irritation | Irritating to skin |
| Serious eye damage/eye irritation | No end point data for material. |
| Sensitization | No end point data for material. |
| Germ cell mutagenicity | No end point data for material. |
| Carcinogenicity | No end point data for material. |
| Reproductive toxicity | No end point data for material. |
| STOT - single exposure | No end point data for material. |
| STOT - repeated exposure | No end point data for material. |
| Aspiration hazard | Risk of serious damage to the lungs (by aspiration). |

SECTION 12: Ecological information

12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste from Residues / Unused Products | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Improper disposal or reuse of this container may be dangerous and illegal. |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14: Transport information

IMDG

| | |
|----------------------------------|----------------|
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 Marine pollutant | Not Applicable |

| | |
|--------------------------------|----------------|
| 14.6 Special Provisions | none |
| RID | |
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 environmental hazard | Not Applicable |
| 14.6 Special Provisions | none |

| | |
|---------------------------|----------------|
| ADR | |
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 environmental hazard | Not Applicable |
| 14.6 Special Provisions | none |

| | |
|---------------------------|----------------|
| IATA | |
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 environmental hazard | Not Applicable |
| 14.6 Special Provisions | none |

| | |
|---------------------------|----------------|
| ADN | |
| 14.1 UN/ID no | Not regulated |
| 14.2 Proper shipping name | Not regulated |
| 14.3 Hazard Class | Not regulated |
| 14.4 Packing Group | Not regulated |
| 14.5 environmental hazard | Not Applicable |
| 14.6 Special Provisions | none |

| | |
|--|---------------|
| IBC | |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not regulated |
| Proper shipping name | Not regulated |
| CATEGORY | Not regulated |

| |
|---|
| SECTION 15: Regulatory information |
|---|

National Regulations

| | |
|--|----------------|
| Occupational Safety and Health Act | Not Applicable |
| Factories and Machinery Act | Not Applicable |
| Environment Quality Act | Not Applicable |
| Pesticides Act | Not Applicable |
| Environmentally Hazardous Substances(EHS) Notification and Registration | Not Applicable |
| Poisons Act | Not Applicable |

International Inventories

| | |
|---------------|----------|
| ENCS | Complies |
| TSCA | Complies |
| EINECS/ELINCS | Complies |
| DSL | Complies |
| AICS | Complies |
| KECL | Complies |
| PICCS | Complies |
| China (IECSC) | Complies |
| NZIoC | Complies |
| Taiwan | Complies |

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|--------------------------------------|
| SECTION 16: Other information |
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| | |
|---------------|-----------------|
| Issue Date | 09-Jul-2014 |
| Revision date | 25-Nov-2015 |
| Revision Note | Not Applicable. |

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 only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet