

WHITE LITHIUM GREASE

Version : V2.0.0.1  
Report No. : GDQY20DS314-2352ME  
Creation Date : 2024/12/19  
Revision Date : 2024/12/19



\*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

Product identifier

|                   |                      |
|-------------------|----------------------|
| Product Name      | WHITE LITHIUM GREASE |
| Cat No.           | GDQY20DS314-2        |
| CAS No.           | Not applicable       |
| EC No.            | Not applicable       |
| Molecular Formula | Not applicable       |

Recommended use of the product and restrictions on use

|                          |                              |
|--------------------------|------------------------------|
| Relevant identified uses | Please consult manufacturer. |
| Uses advised against     | Please consult manufacturer. |

Emergency phone number

|                        |                           |
|------------------------|---------------------------|
| Emergency phone number | 1-800-424-9300 (CHEMTREC) |
|------------------------|---------------------------|

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

|                   |            |
|-------------------|------------|
| Aerosols          | Category 1 |
| Aspiration Hazard | Category 1 |

Label elements

|                   |                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms |   |
| Signal word       | Danger                                                                                                                                                                  |

Hazard statements

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| H222+H229 | Extremely flammable aerosol; Pressurized container: may burst if heated |
| H304      | May be fatal if swallowed and enters airways                            |

Precautionary statements

Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |

Response

|      |                         |
|------|-------------------------|
| P331 | Do NOT induce vomiting. |
|------|-------------------------|

Storage

|           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| P405      | Store locked up.                                                              |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. |

Disposal

|      |                                                                                                      |
|------|------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local/regional/national/ international regulations. |
|------|------------------------------------------------------------------------------------------------------|

Other hazards

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

Hazard description

Physical and chemical hazards

|  |                                         |
|--|-----------------------------------------|
|  | Extremely flammable, risk of explosion. |
|--|-----------------------------------------|

Health hazards

|              |                                                                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|
| Inhaled      | May be fatal if swallowed and enters airways during the course of normal handling.                                               |
| Ingestion    | Due to physical form of this product, considered an unlikely route of entry in commercial/industrial environments.               |
| Skin Contact | Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. |
| Eye          | This product may cause temporary discomfort following direct contact with the eye.                                               |

Environmental hazards

|  |                                      |
|--|--------------------------------------|
|  | Please refer to 12th chapter of SDS. |
|--|--------------------------------------|

3 Composition/information on ingredients

Substance/mixture

|  |         |
|--|---------|
|  | Mixture |
|--|---------|

| Component                                   | CAS No.    | EC No.    | Concentration (wt, %) |
|---------------------------------------------|------------|-----------|-----------------------|
| Water                                       | 7732-18-5  | 231-791-2 | 40~60                 |
| n-Butane                                    | 106-97-8   | 203-448-7 | 10~25                 |
| White mineral oil (petroleum)               | 8042-47-5  | 232-455-8 | 10~25                 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 265-149-8 | 5~15                  |
| Propane                                     | 74-98-6    | 200-827-9 | 2~10                  |

|                                       |           |           |          |
|---------------------------------------|-----------|-----------|----------|
| <b>Lithium<br/>12-hydroxystearate</b> | 7620-77-1 | 231-536-5 | 1~5      |
| <b>Sodium benzoate</b>                | 532-32-1  | 208-534-8 | 0.05~0.3 |

## 4 First-aid measures

### Description of first aid measures

|                                   |                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>             | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.                                                                                                                                     |
| <b>Eye contact</b>                | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.                                                                                                                                |
| <b>Skin contact</b>               | Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.                                                                         |
| <b>Ingestion</b>                  | Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.                                                                                                                               |
| <b>Inhalation</b>                 | Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. |
| <b>Protecting of first-aiders</b> | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.                                                                                              |

### Most important symptoms/effects, acute and delayed

|   |                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |
|---|----------------------------------------------------------------------------------------------------------------------------------------|

### Indication of any immediate medical attention and special treatment needed

|   |                          |
|---|--------------------------|
| 1 | Treat symptomatically.   |
| 2 | Symptoms may be delayed. |

## 5 Fire-fighting measures

### Extinguishing media

|                                       |                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Use extinguishing agent suitable for type of surrounding fire; Small fire: dry chemical or CO <sub>2</sub> ; Large fire: water spray, fog or regular foam; Fire involving tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. |
| <b>Unsuitable extinguishing media</b> | Fire involving tanks: do not direct water at source of leak or safety devices, icing may occur.                                                                                                                                                                                                                                                             |

### Specific hazards arising from the substance or mixture

|   |                                                                                                                                         |
|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Flammable: will be easily ignited by heat, sparks or flames.                                                                            |
| 2 | Will form explosive mixtures with air.                                                                                                  |
| 3 | Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/or vapour concentration. |
| 4 | Vapours may travel to source of ignition and flash back.                                                                                |
| 5 | Development of hazardous combustion gases or vapor possible in the event of fire.                                                       |
| 6 | May expansion or decompose explosively when heated or involved in fire.                                                                 |

### Special protective equipment and precautions for fire-fighters

|   |                                                                                                                        |
|---|------------------------------------------------------------------------------------------------------------------------|
| 1 | As in any fire, wear self-contained breathing apparatus ( MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover.                                                                  |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system.                          |

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|   |                                                                                                                                                            |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Avoid breathing vapours and contacting with skin and eye.                                                                                                  |
| 2 | Beware of vapours accumulating to form explosive concentrations.                                                                                           |
| 3 | Vapours can accumulate in low areas.                                                                                                                       |
| 4 | Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. |
| 5 | Use personal protective equipment,do not breathe gas.                                                                                                      |
| 6 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.                                        |
| 7 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.                                                                          |

### Environmental precautions

|   |                                                       |
|---|-------------------------------------------------------|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided.       |

### Methods and materials for containment and cleaning up

|    |                                                                                                                                                                                                  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | All equipment used in the work should be grounded.                                                                                                                                               |
| 2  | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.                                                                                                             |
| 3  | Spray water inhibits vapor or changes the direction of vapor cloud flow.                                                                                                                         |
| 4  | Do not allow spills to come into contact with combustible materials such as wood, paper, oil, etc.                                                                                               |
| 5  | Do not touch or cross spills.                                                                                                                                                                    |
| 6  | Isolate the leak area until the gas is exhausted.                                                                                                                                                |
| 7  | Cut off the source of the leak as much as possible.                                                                                                                                              |
| 8  | Keep leaks in a ventilated place.                                                                                                                                                                |
| 9  | Do not use water directly to impact spills or sources of leakage.                                                                                                                                |
| 10 | Wear a cold suit when the liquefied gas leaks.                                                                                                                                                   |
| 11 | A large number of leaks: The warning zone is delineated according to the area affected by the gas, and the unrelated personnel are evacuated from the crosswind and the upwind to the safe zone. |
| 12 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.                                                                               |
| 13 | Prevent gas from diffusing through sewers, ventilation systems, and confined spaces.                                                                                                             |

## 7 Handling and storage

### Precautions for safe handling

|   |                                                                                                           |
|---|-----------------------------------------------------------------------------------------------------------|
| 1 | Avoid inhalation of vapors.                                                                               |
| 2 | Use only non-sparking tools.                                                                              |
| 3 | To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded. |
| 4 | Use explosion proof equipment.                                                                            |
| 5 | Handling is performed in a well ventilated place.                                                         |

|   |                                                       |
|---|-------------------------------------------------------|
| 6 | Wear suitable protective equipment.                   |
| 7 | Avoid contact with skin and eyes.                     |
| 8 | Keep away from heat/sparks/open flames/ hot surfaces. |

### Conditions for safe storage, including any incompatibilities

|   |                                                                  |
|---|------------------------------------------------------------------|
| 1 | Keep containers tightly closed.                                  |
| 2 | Keep containers in a dry, cool and well-ventilated place.        |
| 3 | Keep away from heat/sparks/open flames/hot surfaces.             |
| 4 | Store away from incompatible materials and foodstuff containers. |

## 8 Exposure controls/personal protection

### Control parameters

| Component                                   | Country/Region   | Limit value - Eight hours |                   | Limit value - Short term |                   |
|---------------------------------------------|------------------|---------------------------|-------------------|--------------------------|-------------------|
|                                             |                  | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| n-Butane                                    | Australia        | 800                       | 1900              | -                        | -                 |
|                                             | Canada - Ontario | -                         | -                 | 1000                     | -                 |
|                                             | Canada - Québec  | 800                       | 1900              | -                        | -                 |
|                                             | France           | 800                       | 1900              | -                        | -                 |
|                                             | Germany (AGS)    | 1000                      | 2400              | 4000                     | 9600              |
|                                             | New Zealand      | 800                       | 1900              | -                        | -                 |
| Propane                                     | Canada - Ontario | 1000                      | -                 | -                        | -                 |
|                                             | Canada - Québec  | 1000                      | 1800              | -                        | -                 |
|                                             | Germany (AGS)    | 1000                      | 1800              | 4000                     | 7200              |
|                                             | USA - OSHA       | 1000                      | 1800              | -                        | -                 |
|                                             | Austria          | 1000                      | 1800              | 2000                     | 3600              |
|                                             | Belgium          | 1000                      | -                 | -                        | -                 |
| White mineral oil (petroleum)               | Germany (AGS)    | -                         | 5                 | -                        | 20                |
|                                             | Germany (DFG)    | -                         | 5                 | -                        | 20                |
|                                             | Romania          | -                         | 5                 | -                        | 10                |
|                                             | Switzerland      | -                         | 5                 | -                        | -                 |
| Distillates (petroleum), hydrotreated light | Germany (DFG)    | 20                        | 140               | 40                       | 280               |

### Engineering controls

|   |                                                                                        |
|---|----------------------------------------------------------------------------------------|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment.                         |
| 4 | Set up emergency exit and necessary risk-elimination area.                             |

### Personal protection equipment

|                                 |                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General requirement</b>      |                                                                                                         |
| <b>Eye protection</b>           | Must wear appropriate safety goggles.                                                                                                                                                     |
| <b>Hand protection</b>          | Must wear anti static chemical protective gloves.                                                                                                                                         |
| <b>Respiratory protection</b>   | Appropriate respiratory protective equipment must be worn. When the oxygen concentration is unknown, a self-contained atmosphere-supplying respiratory protective apparatus must be worn. |
| <b>Skin and body protection</b> | Must wear anti static chemical protective clothing and anti static shoes.                                                                                                                 |

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties

|                                                    |                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Appearance (physical state, color, etc.)</b>    | Milky white viscous liquid                                                      |
| <b>Odor</b>                                        | Grease odor                                                                     |
| <b>Odor threshold</b>                              | No information available                                                        |
| <b>pH</b>                                          | Not applicable                                                                  |
| <b>Melting point/freezing point(°C)</b>            | No information available                                                        |
| <b>Initial boiling point and boiling range(°C)</b> | No information available                                                        |
| <b>Flash point(Closed cup, °C)</b>                 | Not applicable                                                                  |
| <b>Evaporation rate</b>                            | Not applicable                                                                  |
| <b>Flammability</b>                                | No information available                                                        |
| <b>Upper/lower explosive limits[% (v/v)]</b>       | Upper limit : No information available ; Lower limit : No information available |
| <b>Vapor pressure</b>                              | Not applicable                                                                  |
| <b>Vapor density(Air = 1)</b>                      | Not applicable                                                                  |
| <b>Relative density(Water=1)</b>                   | 0.95±0.1                                                                        |
| <b>Solubility</b>                                  | No information available                                                        |
| <b>n-octanol/water partition coefficient</b>       | Not applicable                                                                  |
| <b>Auto-ignition temperature(°C)</b>               | No information available                                                        |
| <b>Decomposition temperature(°C)</b>               | No information available                                                        |
| <b>Kinematic viscosity</b>                         | Not applicable                                                                  |

## 10 Stability and reactivity

### Stability and reactivity

|                                           |                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| <b>Chemical stability</b>                 | Stable under proper operation and storage conditions.                                     |
| <b>Possibility of hazardous reactions</b> | In contact with an open flame may cause a fire or explosion.                              |
| <b>Conditions to avoid</b>                | Incompatible materials, heat, flame and spark.                                            |
| <b>Incompatible materials</b>             | Oxidantss and halogen.                                                                    |
| <b>Hazardous decomposition</b>            | Under normal conditions of storage and use, hazardous decomposition products              |

products should not be produced.

11 Toxicological information

Acute toxicity

| Component       | LD <sub>50</sub> (oral)  | LD <sub>50</sub> (dermal) | LC <sub>50</sub> (inhalation,4h) |
|-----------------|--------------------------|---------------------------|----------------------------------|
| n-Butane        | No information available | No information available  | 658mg/L(Rat)                     |
| Sodium benzoate | 4070mg/kg(Rat)           | No information available  | No information available         |

Carcinogenicity

| Component                                   | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP | OSHA Carcinogen List |
|---------------------------------------------|--------------------------------------------|------------------------------|----------------------|
| Distillates (petroleum), hydrotreated light | Not Listed                                 | Not Listed                   | Not Listed           |
| n-Butane                                    | Not Listed                                 | Not Listed                   | Not Listed           |
| Lithium 12-hydroxystearate                  | Not Listed                                 | Not Listed                   | Not Listed           |
| Propane                                     | Not Listed                                 | Not Listed                   | Not Listed           |
| White mineral oil (petroleum)               | Not Listed                                 | Not Listed                   | Not Listed           |
| Water                                       | Not Listed                                 | Not Listed                   | Not Listed           |
| Sodium benzoate                             | Not Listed                                 | Not Listed                   | Not Listed           |

Others

| WHITE LITHIUM GREASE          |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Skin corrosion/irritation     | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met |
| Skin sensitization            | Based on available data, the classification criteria are not met |
| Respiratory sensitization     | Based on available data, the classification criteria are not met |
| Reproductive toxicity         | Based on available data, the classification criteria are not met |
| STOT-single exposure          | Based on available data, the classification criteria are not met |
| STOT-repeated exposure        | Based on available data, the classification criteria are not met |
| Aspiration hazard             | May be fatal if swallowed and enters airways(Category 1)         |
| Germ cell mutagenicity        | Based on available data, the classification criteria are not met |

12 Ecological information

Acute aquatic toxicity

| Component                                   | Fish                                   | Crustaceans              | Algae                    |
|---------------------------------------------|----------------------------------------|--------------------------|--------------------------|
| Distillates (petroleum), hydrotreated light | LC <sub>50</sub> : 2.6mg/L (96h)(Fish) | No information available | No information available |
| Sodium benzoate                             | LC <sub>50</sub> : 484mg/L (96h)(Fish) | No information available | No information available |

Chronic aquatic toxicity

|                          |                          |
|--------------------------|--------------------------|
| Chronic aquatic toxicity | No information available |
|--------------------------|--------------------------|

Persistence and degradability

| Component | Persistence (water/soil) | Persistence (air) |
|-----------|--------------------------|-------------------|
| n-Butane  | Low                      | Low               |

Bioaccumulative potential

| Component                                   | Bioaccumulative potential | Comments     |
|---------------------------------------------|---------------------------|--------------|
| Distillates (petroleum), hydrotreated light | Low                       | BCF=159      |
| n-Butane                                    | Low                       | Log Kow=2.89 |

Mobility in soil

| Component | Mobility in soil | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|-----------|------------------|----------------------------------------------------------|
| n-Butane  | Low              | 43.79                                                    |

Results of PBT and vPvB assessment

| Component                                   | Results of PBT and vPvB assessment [according to (EC) No 1907/2006] |
|---------------------------------------------|---------------------------------------------------------------------|
| Distillates (petroleum), hydrotreated light | Not PBT/vPvB                                                        |
| n-Butane                                    | Insufficient information, temporarily unable to evaluate            |
| Lithium 12-hydroxystearate                  | Not PBT/vPvB                                                        |
| Propane                                     | Not PBT/vPvB                                                        |
| White mineral oil (petroleum)               | Not PBT/vPvB                                                        |
| Water                                       | Insufficient information, temporarily unable to evaluate            |
| Sodium benzoate                             | Not PBT/vPvB                                                        |

13 Disposal considerations

Disposal considerations

|                          |                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste chemicals          | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.                       |
| Contaminated packaging   | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging.                                                                                           |

14 Transport information

Label and Mark

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Transporting Label |  |
|--------------------|-------------------------------------------------------------------------------------|

IMDG-CODE

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| UN number                         | 1950                                                             |
| UN proper shipping name           | AEROSOLS                                                         |
| Transport hazard class            | 2.1                                                              |
| Transport subsidiary hazard class | None                                                             |
| Packing group                     | The packagings must conform to package instructions of UN number |
| Marine pollutant ( Yes or no )    | No                                                               |

#### IATA-DGR

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| UN number                         | 1950                                                             |
| UN proper shipping name           | Aerosols, flammalbe                                              |
| Transport hazard class            | 2.1                                                              |
| Transport subsidiary hazard class | None                                                             |
| Packing group                     | The packagings must conform to package instructions of UN number |

#### UN-ADR

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| UN number                         | 1950                                                             |
| UN proper shipping name           | AEROSOLS, flammable                                              |
| Transport hazard class            | 2.1                                                              |
| Transport subsidiary hazard class | None                                                             |
| Packing group                     | The packagings must conform to package instructions of UN number |

#### Transport in bulk according to IMO instruments

- ◆ Transport in bulk according to Annex II of MARPOL and the IBC code

|  |               |
|--|---------------|
|  | Not Available |
|--|---------------|

- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

|  |               |
|--|---------------|
|  | Not Available |
|--|---------------|

- ◆ Transport in bulk in accordance with the IGC Code

|  |               |
|--|---------------|
|  | Not Available |
|--|---------------|

#### Others

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for transport | Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Strictly prohibited shipping or transportation with oxidants, halogens etc. Height shall not exceed the vehicle fence board, and with a triangular wooden pad cards firmly to prevent rolling. Cylinders generally flat, and the bottles should be in the same direction, should not cross. A safety helmet must be fitted for cylinder transport. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements. |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 15 Regulatory information

### International chemical inventory

| Component                                   | EC inventory | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AIIC | ENCS |
|---------------------------------------------|--------------|------|-----|-------|-------|-------|------|------|------|
| Distillates (petroleum), hydrotreated light | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✗    |
| n-Butane                                    | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| Lithium 12-hydroxystearate                  | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| Propane                                     | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| White mineral oil (petroleum)               | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✗    |
| Water                                       | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| Sodium benzoate                             | ✓            | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |

- [EC inventory]European Inventory of Existing Commercial Chemical Substances
- [TSCA]United States Toxic Substances Control Act Inventory
- [DSL]Canadian Domestic Substances List
- [IECSC]China Inventory of Existing Chemical Substances
- [NZIoC]New Zealand Inventory of Chemicals
- [PICCS]Philippines Inventory of Chemicals and Chemical Substances
- [KECI]Korea Existing Chemicals Inventory
- [AIIC]Australian. Inventory of Industrial Chemical (AIIC)
- [ENCS]Japan Inventory of Existing & New Chemical Substances

US chemical inventory

| Component                                   | A | B | C | D | E | F | G | H |
|---------------------------------------------|---|---|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| n-Butane                                    | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| Lithium 12-hydroxystearate                  | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Propane                                     | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ |
| White mineral oil (petroleum)               | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Water                                       | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Sodium benzoate                             | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |

- [A]US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B]US SARA 302- Extremely Hazardous Substance List
- [C]US CERCLA- Hazardous Substances List
- [D]US Massachusetts Right-to-Know Substance List
- [E]US New Jersey Right to Know Hazardous Substance List
- [F]US Pennsylvania Right to Know Hazardous Substance List
- [G]US New York City Right-to-Know Hazardous Substance List
- [H]US California Proposition 65 List

Note:

“✓”Indicates that the substance included in the regulations.

“✗”No data or not included in the regulations.

16Other information

Information on revision

|               |            |
|---------------|------------|
| Creation Date | 2024/12/19 |
|---------------|------------|

|                     |            |
|---------------------|------------|
| Revision Date       | 2024/12/19 |
| Reason for revision | -          |

## Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.chemportal.org/chemportal/>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

## Abbreviations and acronyms

|                  |                                      |           |                                                           |
|------------------|--------------------------------------|-----------|-----------------------------------------------------------|
| CAS              | Chemical Abstracts Service           | UN        | The United Nations                                        |
| PC-STEL          | Short term exposure limit            | OECD      | Organization for Economic Co-operation and Development    |
| PC-TWA           | Time Weighted Average                | IMDG-CODE | International Maritime Dangerous Goods CODE               |
| MAC              | Maximum Allowable Concentration      | IARC      | International Agency for Research on Cancer               |
| DNEL             | Derived No Effect Level              | ICAO      | International Civil Aviation Organization                 |
| PNEC             | Predicted No Effect Concentration    | IATA      | International Air Transportation Association              |
| NOEC             | No Observed Effect Concentration     | ACGIH     | American Conference of Governmental Industrial Hygienists |
| LC <sub>50</sub> | Lethal Concentration 50%             | NFPA      | National Fire Protection Association                      |
| LD <sub>50</sub> | Lethal Dose 50%                      | NTP       | National Toxicology Program                               |
| EC <sub>50</sub> | Effective Concentration 50%          | PBT       | Persistent, Bioaccumulative, Toxic                        |
| EC <sub>x</sub>  | Effective Concentration X%           | vPvB      | very Persistent, very Bioaccumulative                     |
| P <sub>OW</sub>  | Partition coefficient Octanol: Water | CMR       | Carcinogens, mutagens or substances toxic to reproduction |
| BCF              | Bioconcentration factor              | RPE       | Respiratory Protective Equipment                          |
| ED               | Endocrine disruptor                  | HCS       | Hazard Communication Standard                             |

## Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.