

SDS(Safety Data Sheet)

Product	Kixx LUBO 2cSt	
List No.	Issuing date	Last revised date
BO0004	2008-07-25	2020-05-27

1. IDENTIFICATION

1) Product name

Kixx LUBO 2cSt

2) Recommended use of the chemical and restriction on use

- Recommended use (Others)
- Restrictions on use Do not use for any other purpose.

3) Details of the supplier of the safety data sheet

☐ Manufacturer

- Company name GS Caltex Corporation
- Address GS Tower, 508, Nonhyeon-ro, Gangnam-gu, Seoul, Korea
- Emergency telephone number 1544-5151

2. HAZARDS IDENTIFICATION

1) Classification of the product

ASPIRATION HAZARD : Category 1

2) Label elements

☐ Hazard pictograms



☐ Signal word

Danger

☐ Hazard statements

- H304 May be fatal if swallowed and enters airways.

☐ Precautionary statements

1) Prevention

- Not applicable

2) Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do not induce vomiting.

3) Storage

- P405 Store locked up.

4) Disposal

- P501 Dispose of contents/container to

3) Other hazards

○ Product NFPA Level

(※ 0-Lack, 1-Low, 2-Moderate, 3-High, 4-Very High)

Product name	Health	Flammable	Reaction
Kixx LUBO 2cSt	1	1	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Trade names and Synonyms	CAS No.	EC No.	Contain Ratio(%)
Distillates (petroleum), hydrotreated light paraffinic	Mineral oil, petroleum distillates, hydrotreated (severe) light paraffinic	64742-55-8	265-158-7	100

4. FIRST AID MEASURES

- 1) Eye contact**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
 - If eye irritation persists: Get medical advice/attention.
- 2) Skin contact**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
 - If skin irritation occurs: Get medical advice/attention.
- 3) Inhalation**
- Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
 - Administer oxygen if breathing is difficult.
 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 - Do not induce vomiting.
- 4) Ingestion**
- Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- 5) Indication of any immediate medical attention and special treatment needed**
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

- 1) Suitable (and unsuitable) extinguishing media**
- Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

- Use dry sand or earth to smother fire.
- Direct water (Unsuitable extinguishing media)

2) Special hazards arising from the substance or mixture

- Fire may produce irritating, corrosive and/or toxic gases.
- Heating may cause a fire or explosion.

3) Special protective equipment and precautions for firefighters

- Rescuers should put on appropriate protective gear.
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- Eliminate all ignition sources if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

1) Health considerations and protective equipment

- Clean up spills immediately, observing precautions in Protective Equipment section.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Please note that materials and conditions to be avoided.

2) Environmental precautions

- Large spill: Prevent entry into waterways, sewers, basements or confined areas.

3) Methods and material for containment and cleaning up

- Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
- Absorb the liquid and scrub the area with detergent and water.

7. HANDLING AND STORAGE

1) Precautions for safe handling

- Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
- Avoid breathing vapors from heated material.
- Please note that materials and conditions to be avoided.
- Handling refer to engineering control/personal protection section.
- Use only outdoors or in a well-ventilated area.

2) Conditions for safe storage (including any incompatibilities)

- Please note that materials and conditions to be avoided.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Store in a well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

1) Control parameters

Chemical name	Exposure limits	ACGIH TLV	OSHA PEL	Biological limit values(BLV)

Distillates (petroleum), hydrotreated light paraffinic	Not available	TWA 5 mg/m ³ , Inhalable particulate matter (Mineral oil, Pure, highly and severely refined)	Not available	Not available
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2) Appropriate engineering controls

- Install local exhaust ventilation system.
- Check legal suitability of exposure level.

3) Personal protection equipment

- **Respiratory protection**
 - If exposure concentration of the material is lower than 100 ppm of the permitted exposure standards, Wear a respiratory protective device, equipped with an adequate filter by considering physicochemical properties of exposed particulate material ; such
 - If exposure concentration of the particle material is lower than 250 ppm of the permitted exposure standards, Wear a respiratory protective device, equipped with an adequate filter by considering physicochemical properties of exposed particulate material
 - If exposure concentration of the particle material is lower than 500 ppm of the permitted exposure standards, Wear a respiratory protective device, equipped with an adequate filter by considering physicochemical properties of exposed particulate material
 - If exposure concentration of the particle material is lower than 10000 ppm of the permitted exposure standards, Wear a respiratory protective device, equipped with an adequate filter by considering physicochemical properties of exposed particulate material
 - If exposure concentration of the material is lower than 100000 ppm of the permitted exposure standards, Wear a respiratory protective device, equipped with an adequate filter by considering physicochemical properties of exposed particulate material ; su
 - If exposure concentration of the material exceeds the permitted exposure standards, Wear European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment.
- **Eye protection**
 - An eye wash unit and safety shower station should be available nearby work place.
 - Wear breathable safety goggles to protect from vapour state organic material causing eye irritation or other disorder.
- **Hand protection**
 - Wear appropriate protective gloves by considering physical and chemical properties of chemicals.
- **Body protection**
 - Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Item	Input Value
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Apperance	Liquid
Color	No Data
Smell	탄화수소 냄새
Smell Threshold	자료없음
pH (Numerical value)	No Data
Melting/Freezing Point	자료없음
Boillng Point (Numerical value)	No Data
Flash Point (Numerical value)	No Data
Evaporating Rate	0.01
Flammability(Solid, Gas)	자료없음
Explosibility Range	No Data
Steam Pressure	5 mmHg
Solubility (Numerical value)	No Data
Vapor Density	5
Specific Gravity	0.85
Distribution Coefficient	자료없음
Selflgnition Temperature	>400
Pyrolysis Temperature	자료없음
Viscosity (Numerical value)	No Data
Molecular Weight	자료없음

10. STABILITY AND REACTIVITY

- 1) Chemical Stability and hazardous reactivity** - Can form explosive mixtures at temperatures at or above the flashpoint.
- Fire may produce irritating, corrosive and/or toxic gases.
- 2) Conditions to avoid** - Ignition source(heat, spark, flame, friction, shock, contamination)
- 3) Incompatible materials** - Combustibles
- 4) Hazardous decomposition products** - During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

- 1) Information on the likely routes of exposures**
 - ☐ **Inhalation**
- No inhalation effects through respiratory system.
 - ☐ **Skin contact**

- No effect on skin contact.

○ **Eye contact**

- No effect on eye contact.

○ **Ingestion**

- May be fatal if swallowed and enters airways.

- Absorbable through the inhalation

2) Health hazard information

○ **Acute toxicity**

* **Oral - Not classified (ATEmix > 2000 mg/kg)**

- Distillates (petroleum), hydrotreated light paraffinic : rat(male/female); LD50 > 5000 mg/kg bw, no deaths (OECD TG 401, GLP) (read across: 64742-56-9) (ECHA)

* **Dermal - Not classified (ATEmix > 2000 mg/kg)**

- Distillates (petroleum), hydrotreated light paraffinic : rabbit(male/female); LD50 > 5000 mg/kg bw, no deaths (OECD TG 402, GLP) (read across: 64742-56-9) (ECHA)

* **Inhalation(Gas) - Not applicable**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

* **Inhalation(Vapour) - Not classified (ATEmix > 20 mg/L)**

- Distillates (petroleum), hydrotreated light paraffinic : Not available

* **Inhalation(Dust, mist) - Not classified (ATEmix > 5 mg/L)**

- Distillates (petroleum), hydrotreated light paraffinic : rat(male/female); inhalation: aerosol; LC50 > 5.53 mg/L air /4h, no deaths (OECD TG 403) (read across: MRD-87-102) (ECHA)

○ **Skin corrosion/Irritation : Not classified**

- Distillates (petroleum), : rabbit; not irritating (GLP) (read across: 64742-56-9) (ECHA)
hydrotreated light
paraffinic

○ **Serious eye damage/irritation : Not classified**

- Distillates (petroleum), : rabbit; not irritating (OECD TG 405, GLP) (read across: 64742-56-9) (ECHA)
hydrotreated light
paraffinic

○ **Respiratory sensitization : Not classified**

- Distillates (petroleum), : Not available
hydrotreated light
paraffinic

○ **Skin sensitization : Not classified**

- Distillates (petroleum), : guinea pig; not sensitising (OECD TG 406, GLP) (ECHA)
hydrotreated light
paraffinic

○ **Carcinogenicity : Not classified**

- Distillates (petroleum), : EU CLP 1272/2008 : Carc. 1B (Note L : The classification as a carcinogen need
hydrotreated light not apply if it can be shown that the substance contains less than 3% DMSO
paraffinic extract as measured by IP 346)

○ **Germ cell mutagenicity : Not classified**

- Distillates (petroleum), : In vitro Bacterial Reverse Mutation Assay : positive (OECD TG 471) (read across:

hydrotreated light paraffinic : 64741-50-0) (ECHA), In Vitro Mammalian Chromosome Aberration Test : negative (OECD TG 473) (read across: L-06 Light Hydrotreated Feedstock) (ECHA)

In vivo Mammalian Erythrocyte Micronucleus Test : negative (OECD TG 474) (read across: solvent-extracted, dewaxed paraffin oil) (ECHA)

○ **Reproductive toxicity : Not classified**

- Distillates (petroleum), hydrotreated light paraffinic : rat(male/female); 1000 mg/kg/day; Reproduction / Developmental Toxicity Screening Test; Reproductive performance was not adversely affected at any dose level evaluated. There were no neonatal toxicity observed at any dose level. There were no differences in terms of systemic toxicity between either of the dose formulations. (OECD TG 421, GLP) (read across: Chevron 100 Neutral) (ECHA)
- rat; Dermal administration of the base oil did not adversely affect maternal reproductive performance, nor did it affect offspring survival or development. (OECD TG 414) (read across: 100 SUS solvent refined base oil) (ECHA)

○ **Specific target organ toxicity (single exposure) : Not classified**

- Distillates (petroleum), hydrotreated light paraffinic : oral; rat(male/female); No clinical signs of toxicity observed in either male or female rats. LD50 > 5000 mg/kg bw, no deaths (OECD TG 401, GLP) (read across: 64742-56-9) (ECHA)
- dermal; rabbit(male/female); No visible signs of clinical toxicity were observed in male and female rabbits dosed with API 78-9 at 5000 mg/kg. LD50 > 5000 mg/kg bw, no deaths (OECD TG 402, GLP) (read across: 64742-56-9) (ECHA)
- inhalation: aerosol; rat(male/female); The test material which was deposited on the animal fur during exposure diminished by observation Day 10. No mortality in either the control or exposed group was reported. There were no statistically significant differences in mean body weight between groups. LC50 > 5.53 mg/L air /4h, no deaths (OECD TG 403) (read across: MRD-87-102) (ECHA)

○ **Specific target organ toxicity (repeated exposure) : Not classified**

- Distillates (petroleum), hydrotreated light paraffinic : rabbit(male/female); dermal; The systemic toxicity NOAEL for this 28-day dermal toxicity study in the rabbit is 1,000 mg/kg, based on the lack of adverse systemic effects observed at this dose level. (OECD TG 410, GLP) (ECHA)

○ **Aspiration hazard : Category 1**

- Distillates (petroleum), hydrotreated light paraffinic : 17.0 mm²/s (40 °C) (ECHA) & hydrocarbons

12. ECOLOGICAL INFORMATION

1) Ecotoxicity

- Acute toxicity : Not classified (ATEmix>1mg/L)
- Chronic toxicity : Not classified

○ **Acute (short-term) aquatic hazard:**

Fish

- Distillates (petroleum), hydrotreated light paraffinic : 96h-LL50(Pimephales promelas) > 100 mg/L (OECD TG 203, GLP) (ECHA)

Invertebrates

- Distillates (petroleum), hydrotreated light paraffinic : 48h-EL50(Daphnia magna) > 10000 mg/L (OECD TG 202) (ECHA)

Aquatic algae

- Distillates (petroleum), hydrotreated light paraffinic : Not available

○ Chronic (Long-term) aquatic hazard:

Fish

- Distillates (petroleum), hydrotreated light paraffinic : Not available

Invertebrates

- Distillates (petroleum), hydrotreated light paraffinic : 21d-NOEL(Daphnia magna) = 10 mg/L (OECD TG 211, GLP) (ECHA)

Aquatic algae

- Distillates (petroleum), hydrotreated light paraffinic : 72h-NOEL(Pseudokirchneriella subcapitata) >=100 mg/L (OECD TG 201) (ECHA)

2) Persistence and degradability

○ Persistence

- Distillates (petroleum), hydrotreated light paraffinic : Not available

○ Degradability

- Distillates (petroleum), hydrotreated light paraffinic : Not available

3) Bioaccumulative potential

○ Bioaccumulation

- Distillates (petroleum), hydrotreated light paraffinic : Not available

○ Biodegradation

- Distillates (petroleum), hydrotreated light paraffinic : 31 % degradation after 28d; not readily biodegradable (OECD TG 301F, GLP) (ECHA)

4) Mobility in soil

- Distillates (petroleum), hydrotreated light paraffinic : Not available

5) Hazard to the ozone layer

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

6) Other adverse effects

- Distillates (petroleum), hydrotreated light paraffinic : Not classified

13. DISPOSAL CONSIDERATIONS

1) Disposal methods

- Waste must be disposed of in accordance with federal, state and local environmental control regulation.

2) Special precaution for disposal

- Consider the required attentions in accordance with waste treatment management regulation.

14. TRANSPORT INFORMATION

1) UN No.

- Not applicable

2) Proper shipping name

- Not applicable

3) Transport hazard class(es)

- Not applicable

4) Packing group

- Not applicable

5) Marine pollutant

- Not applicable

6) Special safety response for transportation or transportation measure

- Types of Emergency Measures in Case of Fire : Not applicable
- Types of Emergency Measures in Leakage : Not applicable
- Transport regulations according to ADR/RID, AND, IMDG and ICAO/IATA : Not applicable

15. REGULATORY INFORMATION

EINECS(or ELINCS)

- Distillates (petroleum), hydrotreated light paraffinic : European EINECS phase-in substance

EU CLP (CLASSIFICATION) - PRODUCT : Not applicable

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

Substances restricted under REACH

- Distillates (petroleum), hydrotreated light paraffinic : Substances restricted under REACH

Substances subject to authorization under REACH

REACH SVHC List

Korea

☐ **Occupational Safety and Health Act**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **K-REACH**

- Distillates (petroleum), hydrotreated light paraffinic : Phase-in Substances

☐ **Chemical Control Act in Korea**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **Safety Control of Dangerous Substances Act**

- Distillates (petroleum), hydrotreated light paraffinic : Dangerous substance

U.S.A

☐ **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **CERCLA Designation of hazardous substances (40 CFR 302.4)**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **CERCLA Section 302 regulation**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **CERCLA Section 304 regulation**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ **CERCLA Section 313 regulation**

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

Interntional Convention on Environment

☐ Rotterdam Convention list

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ Stockholm Convention list

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

☐ Montreal Protocol list

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

National Inventory

☐ Korea

- Distillates (petroleum), hydrotreated light paraffinic : Phase-in Substances

☐ U.S.A

- Distillates (petroleum), hydrotreated light paraffinic : US TSCA phase-in substance

☐ China

- Distillates (petroleum), hydrotreated light paraffinic : China phase-in substance

☐ Japan

- Distillates (petroleum), hydrotreated light paraffinic : Not applicable

16. OTHER INFORMATION

1) Reference

- Sources of information used in preparing this SDS included one or more of the following: Internal technical data, data from OECD eChemPortal, ECHA, NITE, TOXNET, IPCS and KOSHA search results.

2) Issue Date

- 2008-07-25

3) Revision number and Last date revised

☐ Number of revised

- 8

☐ Date of last revision

- 2020-05-27

☐ Last Revision History

- To correct typing errors

4) Other

- The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.