

Material Safety Data Sheet (MSDS)

Product	KIXX PSF IV		
Team	Date of first preparation	Date of last revision	Revision Number
Finished Lubricants R&D Team	2012-11-30	2017-10-26	3

1. Chemical Product and Company Information

- 1) Product : Kixx PSF IV
- 2) Recommended use of the chemical and restrictions on use
 - \bigcirc Recommended use : Lubricants, Automotive Power Steering Oil
 - \bigcirc Restrictions on use : No data
- 3) Manufacture/Supplier information
 - \bigcirc Supply company : GS Caltex Corporation
 - Address : Nonhyeon-ro 508(Yeoksam-dong), Gangnam-gu, Seoul, South Korea
 - Information service or emergency call : 82-2-1899-5145
 - Department in charge : Finished Lubricants R&D Team

2.Hazards Identification

- 1) Classification of the substance or mixture
 - Not hazardous
- 2) GHS labels, including precautionary statements
 - \bigcirc Symbol : No symbol
 - \bigcirc Signal word : No signal word
 - Hazard statement
 - Not classified under GHS criteria
 - \bigcirc Precautionary statement
 - Prevention
 - No precautionary phrases
 - Response
 - No precautionary phrases
 - Storage
 - No precautionary phrases
 - Disposal

No precautionary phrases

3) Other hazards which do not result in classification

NFPA Component	Health	Fire	Reactivity
1. 1-Decene, dimer, hydrogenated	1	1	0
2. Distillates, Hydrotreated Heavy Paraffinic	1	1	0
3. Hydrotreated Light Paraffinic	1	1	0
4. Additive mixture	2	2	0
5. Lauryl methacrylate	1	1	0

3. Composition and Information on Ingredients

Component	Synonyms	CAS No.	Content(%)
1. 1-Decene, dimer, hydrogenated	Polyalphaolefin	68649-11-6	45 ~ 50
2. Distillates, Hydrotreated Heavy Paraffinic	Hydrotreated (severe) heavy paraffinic distillate	64742-54-7	20 ~ 25
3. Hydrotreated Light Paraffinic	Mineral oil	64742-55-8	5 ~ 10
4. Additive mixture	Not Applicable	Not Determined	5 ~ 10
5. Lauryl methacrylate	2-Methyl-2-propenoic acid dodecyl ester homopolymer	25719-52-2	15 ~ 20

4. First Aid Measures

1) Eye contact :

- Wash eyes thoroughly with plenty of water for at least 20 minutes.

2) Skin contact :

- Remove contaminated clothing and wash skin with plenty of soap and water.
 Flush with plenty of water for 15 minutes.
 Seek medical attention if ill effect or irritation develops.
- 3) Inhalation :
 - If overcome by exposure, remove person to fresh air immediately.
 - Give oxygen or artificial respiration as needed.
 - Obtain emergency medical attention. Prompt action is essential.
- 4) Ingestion :
 - Do not induce vomiting. Obtain emergency medical attention. Prompt action is essential.
- 5) Most important symptoms/effects, acute and delayed :
 - May cause slight eye and skin irritation. Not expected to be a sensitizer.
- 6) First-aid treatment and information on medical doctors :
 - Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

- 1) Recommanded(or prohibited) extinguishing media
 - \bigcirc Recommanded extinguishing media :
 - Dry chemicals, CO2, water spray, fire fighting foam
 - \bigcirc Prohibited extinguishing media :
 - High pressure water shoot
 - \bigcirc Large fire :
 - Fire fighting foam or water spray
- 2) Specific hazard from chemical material
 - \bigcirc Toxicant from combustion : Carbon oxides
 - Fire and Explosion Hazards: Slight fire risk
- 3) Extinguishment :

If it is not dangerous, remove containers from fire areas.

Make hills for further treatment.

Avoid Inhalation of material oneself or combustion generation material

Stand against the wind and avoid lower zone.

6. Accidental Release Measures

1) Necessary actions to protect human health :

If it is not dangerous, stop release safely, do so. Keep away from water supply facilities and sewage. Avoid inhalation of materials or combustion products. Avoid heat, flame, spark, and other ignition sources.

- 2) Necessary actions to protect the environment
 - May contaminate water supplies/pollute public waters. Evacuate/limit access.

Equip responders with proper protection.

Prevent flow to sewer/public waters. Stop release. Notify fire and environmental authorities. Restrict water use for cleanup.

3) Purification and removal methods

Small leak : Only authorized person can access to the hazardous and restricted areas.
 Collect spills with proper containers to treat them.

Absorb spills with sand and other non-combustible materials.

○ Large leak : No data

7. Handling and Stroage

1) Safety handling :

Avoid contact with skin. Use proper bonding and/or grounding procedures.

Prevent small spills and leakage to avoid slip hazard.

Material can accumulate static charges which may cause an electrical spark (ignition source).

2) Stroage :

Stroage in closed containers. Stroage in cool and dry areas. Ventilation keeps it in a region. Keep away from prohibited materials for mixing.

8. Exposure Control and Personal Protection

- A. Exposure limits and biological exposure limits of chemical
- 1) 1-Decene, dimer, hydrogenated O ACGIH : TWA : 5mg/m3 STEL : 10mg/m3 O NIOSH : TWA : 5mg/m3
 - STEL: 10mg/m3
 - Biological exposure limits : No data
- 2) Distillates, Hydrotreated Heavy Paraffinic
 - ACGIH : TWA : No data STEL : No data
 - NIOSH : TWA : No data
 STEL : No data
 O Biological exposure limits : No data
- 3) Hydrotreated Light Paraffinic
 - ACGIH: TWA: No data
 - STEL : No data
 - NIOSH: TWA: No data
 - STEL : No data
 - O Biological exposure limits : No data
- 4) Additive mixture
 - ACGIH : TWA : 5mg/m3
 - STEL:10mg/m3
 - Biological exposure limits : No data
- 5) Lauryl methacrylate
 - ACGIH : No data
 - \bigcirc Biological exposure limits : No data
- B. Engineering management :

Ventilation equipment should be explosion-proof if explosive concentrations of dust, vapor or fume are present. Install local ventilation system. Comply with limits.

- C. Personal protection equipment :
 - \bigcirc Respiratory protection :

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator

 \bigcirc Eyes protection :

Safety glasses or goggles are recommended for the eyes protection from dusts or mists. A business proprietor should install eyes washing facilities near working areas to protect worker's eyes for emergency.

- Hands protection :
 Use proper chemical resistant gloves.
 Human body protection :
 - Use proper chemical resistant clothes.

9. Physical and Chemical Properties

- 1) Appearance : Clear, Green
- 2) Odor : a specific smell of Hydrocarbon
- 3) Odor threshold : No data
- 4) pH : No data
- 5) Melting point/freezing point : No data
- 6) Initial boiling point or boiling range : > 200°C
- 7) Flash point : 180℃ (C.O.C)
- 8) Evaporation rate (BuAc=1) : No data
- 9) Flammability(solid, gas) : No data
- 10) Upper/lower flammability or explosive limits : No data
- 11) Vapor pressure : No data
- 12) Solubility : No data
- 13) Vapor density : No data
- 14) Relative density : 0.84
- 15) Partition coeficient: n-octano/water : No data
- 16) Auto-ignition temperature : No data
- 17) Decomposition temperature : No data
- 18) Viscosity : 7.2 cSt(100℃)
- 19) Molecular weight : No data

10. Stability and Reactivity

- Chemical stability :
 Stable at room temperature and pressure.
- 2) Toxicant generation possibility during reaction :
 Not polymerization
- 3) Prohibited conditions :
 Avoid heat, sparks, open flames and other ignition sources
- 4) Prohibited materials : - An Oxidizing agent
- 5) Toxicant during decomposition :
 - Carbon oxides

11. Toxicological Information

- A. Information on the likely routes of exposure
 - \bigcirc Inhalation : May cause slight irritation
 - \bigcirc Ingestion : May cause vomit, coughing, shortness of breath, dizziness.
 - \bigcirc Skin contact : May cause slight skin irritation.
 - \bigcirc Eye contact : May cause slight eye irritation.
- B. Delayed and immediate effects and chronic effects from short or long term exposure
- 1) 1-Decene, dimer, hydrogenated
 - \bigcirc Acute toxicity
 - Oral : LD50 > 5000mg/bw Rat
 - Dermal : LD50 > 2000mg/bw Rat
 - Inhalation: LC50 = 1170mg/L (4hr) Rat
 - Skin corrosion/irritation : No irritating (Rabbit)
 - Serious eye damage/eye irritation : No irritating (Rabbit)
 - Respiratory sensitization : Not determined (guinea pig)
 - \bigcirc Skin sensitization : Not determined (guinea pig)
 - Carcinogenicity : MOL, OSHA, IARC : No data
 - \bigcirc Germ cell mutagenicity : Negative (Ames test)
 - Reproductive toxicity : No data
 - \bigcirc Specific target organ systemic toxicity(single exposure) : No data
 - Specific target organ systemic toxicity(repeated exposure) : No data
 - Aspiration hazard : No data
- 2) Distillates, Hydrotreated Heavy Paraffinic
 - \bigcirc Acute toxicity
 - Oral : LD50 > 5000mg/bw Rat
 - Dermal : LD50 > 5000mg/bw Rabbit
 - \bigcirc Skin corrosion/irritation : May cause slight skin irritation
 - \bigcirc Serious eye damage/eye irritation : No irritating (Rabbit)
 - Respiratory sensitization : Not determined (guinea pig)
 - \bigcirc Skin sensitization : Not determined (guinea pig)

- Carcinogenicity: MOL, OSHA, IARC: No data
- Germ cell mutagenicity : Negative (Ames test)
- \bigcirc Reproductive toxicity : No data
- \bigcirc Specific target organ systemic toxicity(single exposure) : No data
- Specific target organ systemic toxicity(repeated exposure) : No data
- \bigcirc Aspiration hazard : No data

3) Hydrotreated Light Paraffinic

- \bigcirc Acute toxicity
 - Oral : LD50 > 5000mg/bw Rat
 - Dermal : LD50 > 2000mg/bw Rabbit
 - Inhalation : LC50 = 2.18mg/L (4hr) Rat
- \bigcirc Skin corrosion/irritation : May cause slight skin irritation
- \bigcirc Serious eye damage/eye irritation : No irritating (Rabbit)
- \bigcirc Respiratory sensitization : Not determined (guinea pig)
- \bigcirc Skin sensitization : Not determined (guinea pig)
- \bigcirc Carcinogenicity : MOL, OSHA, IARC : No data
- \bigcirc Germ cell mutagenicity : Negative (Ames test)
- \bigcirc Reproductive toxicity : No data
- \bigcirc Specific target organ systemic toxicity(single exposure) : No data
- \bigcirc Specific target organ systemic toxicity(repeated exposure) : No data
- \bigcirc Aspiration hazard : No data
- 4) Additive mixture
 - Acute toxicity
 - Oral : LD50 > 5000mg/bw Rat
 - Dermal : LD50 > 5000mg/bw Rabbit
 - Inhalation : LC50 = 50mg/L (4hr) Rat
 - \bigcirc Skin corrosion/irritation : No data
 - \bigcirc Serious eye damage/eye irritation : No data
 - Respiratory sensitization : No data
 - \bigcirc Skin sensitization : No data
 - \bigcirc Carcinogenicity : No data
 - Germ cell mutagenicity : No data
 - \bigcirc Reproductive toxicity : No data
 - Specific target organ systemic toxicity(single exposure) : No data
 - Specific target organ systemic toxicity(repeated exposure) : No data
 - \bigcirc Aspiration hazard : No data

5) Lauryl methacrylate

- \bigcirc Acute toxicity
 - Oral : LD50 > 2000mg/bw Rat
 - Dermal : LD50 > 2000mg/bw Rabbit
 - Inhalation: No data
- \bigcirc Skin corrosion/irritation : May cause slight skin irritation
- \bigcirc Serious eye damage/eye irritation : May cause slight eye irritation
- \bigcirc Respiratory sensitization : No data
- \bigcirc Skin sensitization : No data
- \bigcirc Carcinogenicity : No data
- \bigcirc Germ cell mutagenicity : No data
- Reproductive toxicity : No data

- \bigcirc Specific target organ systemic toxicity(single exposure) : No data
- \bigcirc Specific target organ systemic toxicity(repeated exposure) : No data
- \bigcirc Aspiration hazard : No data
- C. Numerical measures of toxicity(such as ATE) : No data

12. Ecological Information

A. Hazardous to the aquatic environment : 1) 1-Decene, dimer, hydrogenated ○ Fish : No data ○ Crustacea : No data ○ Algea: No data 2) Distillates, Hydrotreated Heavy Paraffinic : May cause long lasting harmful effects to aquatic life \bigcirc Fish : No data ○ Crustacea : No data ○ Algea : No data 3) Hydrotreated Light Paraffinic : May cause long lasting harmful effects to aquatic life \bigcirc Fish : No data ○ Crustacea : No data ○ Algea : No data 4) Additive mixture \bigcirc Fish : No data ○ Crustacea: No data ○ Algea : No data 5) Lauryl methacrylate ⊖ Fish : No data ○ Crustacea : No data ○ Algea : No data

- B. Persistence and degradability :
 - 1) 1-Decene, dimer, hydrogenated
 No data
 - 2) Distillates, Hydrotreated Heavy Paraffinic
 - No data
 - 3) Hydrotreated Light Paraffinic
 - No data
 - 4) Additive mixture
 - No data
 - 5) Lauryl methacrylate
 - No data
- C. Bioaccumulative potential
 - 1) 1-Decene, dimer, hydrogenated - No data
 - 2) Distillates, Hydrotreated Heavy Paraffinic
 - Bioaccumulation : 6% (28 day, aerotropism, domestic waste water, not disassemble)
 - 3) Hydrotreated Light Paraffinic
 - Bioaccumulation : 6% (28 day, aerotropism, domestic waste water, not disassemble)

- 4) Additive mixture
 - No data
- 5) Lauryl methacrylate
 - No data
- D. Mobility in soil :
 - Expected to have mobility in soils.
- E. Other adverse effects :

- No data

13. Disposal Considerations

- Disposal methods : Use only licensed transporters and permitted facilities for waste disposal.
- 2) Disposal cautions : Dispose according to the related regulations

14. Transport Information

This product is not regulated for carriage according to ADR/RID, ADN, IMDG, ICAO/IATA.

- 1) UN number : Not applicable
- 2) UN Proper Shipping Name : Not applicable
- 3) Transport hazard classes : Not applicable
- 4) Packing group, if applicable : Not applicable
- 5) Environmental hazards : Not applicable
- 6) Special precautions for user : Not applicable

15. Regulatory Information

- A. Industrial safety and health act (Korea) Not determined
- B. Chemical control act (Korea) Not determined
- C. Dangerous Goods Safe Control Act (Korea) Category 4 Dangerous Goods (Flammable Liquids), Grade 4 petroleum chemicals

D. Hazardous material safety act (Korea)

- Hydrogenated Decene Homopolymer : No data
- Distillates, Hydrotreated Heavy Paraffinic : No data
- Hydrotreated Light Paraffinic : No data
- Additive mixture : No data

- Lauryl methacrylate : No data

- E. Other internal and foreign acts
 - 1) 1-Decene, dimer, hydrogenated

- EPCRA 313 (40CFR372.65) :

 \bigcirc EU classification

- Classification :		
	Not determined	
– Risk Phrases :	Not determined	
- Safety Phrases :	Not determined	
○ U.S. acts		
- OSHA (29CFR1910.1	19):	Not determined
- CERCLA 103 (40CFR		Not determined
- EPCRA 302 (40CFR355.30) :		Not determined
- EPCRA 304 (40CFR355.40) :		Not determined
– EPCRA 304 (40CFR355.40) . – EPCRA 313 (40CFR372.65) :		Not determined
	12.00) ·	Not determined
2) Distillates, Hydrotreated	Heavy Paraffinic	
○ EU classification		
- Classification :	Not determined	
- Risk Phrases :	Not determined	
- Safety Phrases :	Not determined	
\bigcirc U.S. acts		
- OSHA (29CFR1910.1	10) .	Not determined
- CERCLA 103 (40CFR		Not determined
	•	Not determined
- EPCRA 302 (40CFR355.30) :		
- EPCRA 304 (40CFR355.40) :		Not determined
- EPCRA 313 (40CFR3	12.05) ·	Not determined
3) Hydrotreated Light Parat	ffinic : No data	
	mine · NU uala	
O EU classification		
 EU classification Classification : 	Not determined	
 EU classification Classification : Risk Phrases : 	Not determined Not determined	
 EU classification Classification : Risk Phrases : Safety Phrases : 	Not determined	
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 EU classification Classification : Risk Phrases : Safety Phrases : U.S. acts OSHA (29CFR1910.1 CERCLA 103 (40CFR) 	Not determined Not determined Not determined 19) : 302.4) :	Not determined
 EU classification Classification : Risk Phrases : Safety Phrases : U.S. acts OSHA (29CFR1910.1) CERCLA 103 (40CFR3) EPCRA 302 (40CFR3) 	Not determined Not determined Not determined 19) : 302.4) : 55.30) :	Not determined Not determined
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 EU classification Classification : Risk Phrases : Safety Phrases : U.S. acts OSHA (29CFR1910.1) CERCLA 103 (40CFR3) EPCRA 302 (40CFR3) EPCRA 304 (40CFR3) EPCRA 313 (40CFR3) EPCRA 313 (40CFR3) 4) Additive mixture EU classification Classification : 	Not determined Not determined Not determined 19) : 302.4) : 55.30) : 55.40) : 72.65) : No data	Not determined Not determined Not determined
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No data

5) Lauryl methacrylate

○ EU classification

- Classification:	Not determined	
– Risk Phrases :	Not determined	
- Safety Phrases :	Not determined	
\bigcirc U.S. acts		
– OSHA (29CFR1910.119) :		
– CERCLA 103 (40CFR302.4) :		
– EPCRA 302 (40CFR355.30) :		
– EPCRA 304 (40CFR355.40):		

- EPCRA 313 (40CFR372.65) :

16. Other Information

- 1) References
 - Korea Occupatonal Safety & Health Agency
 - GS Caltex R&D Center
 - MSDS of raw material from supplier
 - KOSHANET
 - Occupation safety and health acts of Korea
 - Globally Harmonized System of classification and labeling of chemicals (GHS), First revised edition, United Nations

Not determined Not determined Not determined Not determined

Not determined

- EINECS(European Inventory of Existing Commercial Chemical Substances)
- ACGIH(American Conference of Governmental Safety and Health)
- IUCLID Dataset
- 2) Date of preparation of the first version of the MSDS : 2012.11.30
- 3) Revised frequency and Date of preparation of the latest version of the MSDS : 2017-10-26 (3)
- 4) Others :

To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the Internet so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued.

Certain hazards are described herein, however these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.

Customers are encouraged to review this information, follow precautions, and comply with all applicable laws and regulations regarding the use and disposal of this product.

For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative.

The final determination of the suitability of any material is the sole responsibility of the user.