Material Safety Data Sheet(MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1. Product Name: S-OIL GREASE EP 1
- 2. Advisable use and Restriction
 - O Advisable use :grease
 - O Restriction: Please avoid to mix with different oil
- 3. Manufacturer/Supplier information
 - Manufacturer: KOREA HOUGHTON CO., LTD. 20-31, Seobunam-ro 151beon-gil, Seonjang-myeon, Asan-si, Chungnam-do, S.KOREA(+82-2-3284-3353)
 - O Supplier: S-OIL CORPORATION CO., LTD, 192, Baekbeom-ro, Mapo-gu, Seoul 04196, Korea

S.KOREA

- Information service or emergency number : +82-2-3284-3353
- O Dept. responsible for information/contact number : KOREA HOUGHTON CO., LTD. YOUNG UK, KWON (+82-10-2025-8059)

2. HAZARD IDENTIFICATION

- 1. Hazard classification
 - ACUTE TOXICITY(Inhalation: Dust/mist) Category 4
- 2. Allocation label elements

○ Symbol



- O Signal word: Warning
- O Hazard statements: H332 Harmful if inhaled.
- O Precautionary statements
- Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

- Response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician you feel unwell.

3. Other hazard information not included in hazard classification (NFPA)

| | No NFPA data of the product. thus NFPA data was described by the product component | | | |
|-------------------------|--|------------|---------------|------------|
| Chamiaal Nama NFPA Leve | | NFPA Level | | |
| | Chemical Name | Health | Flamm abliity | Reactivity |
| 1. | DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC | 1 | 1 | 0 |
| 2. | Substance1 | 1 | 0 | 0 |
| 3. | Substance2 | 1 | 1 | 0 |
| 4. | Substance3 | 1 | 1 | 0 |
| 5. | Substance4 | 1 | 1 | 0 |
| 6. | Substance5 | 1 | 1 | 0 |
| 7. | Substance6 | 1 | 0 | 0 |

3. INGREDIENT INFORMATION

| | Components | Common name | CAS No. | PCT(W%) |
|----|---|---|------------|-----------|
| 1) | DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC | DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 | 60.0~70.0 |
| 2) | Substance1 | - | - | 15.0~25.0 |
| 3) | Substance2 | - | - | 5.0~10.0 |
| 4) | Substance3 | - | - | 1.0~5.0 |
| 5) | Substance4 | - | - | 1.0~5.0 |
| 6) | Substance5 | _ | _ | 0.1~1.0 |
| 7) | Substance6 | - | _ | 0.01~1.0 |

4. FIRST AID MEASURES

- 1) Following eye contact
 - Get medical aid immediately.
 - In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- 2) Following skin contact
 - Call a POISON CENTER or doctor/physician you feel unwell.
 - For minor skin contact, avoid spreading material on unaffected skin.
 - Get medical aid immediately.
 - In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

- Remove and isolate contaminated clothing and shoes.

3) Following inhalation

- Administer oxygen if breathing is difficult.
- Do not use mouth-to-mouth method if victim ingested or 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.
- Give artificial respiration if victim is not breathing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
- Keep victim warm and quiet.
- Move victim to fresh air.
- Seek immediate medial assistance. .

4) Following ingestion

- Call 911 or emergency medical service.
- Do not use mouth-to-mouth method if victim ingested or 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.
- If unconscious but breathing, never give anything by mouth.

5) Advice to physician

- Do not apply drugs of the adrenaline ephedrine group.
- 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 dry sand or earth to smother fire.
 - Large fire: Water spray/fog, regular foam (Suitable extinguishing media).
 - Large fire: Foam (Suitable extinguishing media).
 - Small fire: CO2 (Suitable extinguishing media).
 - Direct water (Unsuitable extinguishing media).
 - Large fire: Dry chemical (Suitable extinguishing media).
 - Small fire: Dry chemical (Suitable extinguishing media).
 - Large fire: Excess water (Suitable extinguishing media).
 - Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media).
 - Large fire: Water spray/fog (Suitable extinguishing media).
 - Small fire: Water spray (Suitable extinguishing media).
 - Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

- High-pressure water (Unsuitable extinguishing media).
- Large fire: CO2 (Suitable extinguishing media).
- Large fire: Alcohol-resistant foam (Suitable extinguishing media).

2. Special hazards arising from the substance

- O Specific hazards arising from the chemical(e.g. nature of any hazardous combustion products)
 - Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- O Special protective equipment and precautions for fire-fighters:
 - Some may burn but none ignite readily.
 - Fire may produce irritating and/or toxic gases.
 - Containers may explode when heated.

6. ACCIDENTAL RELEASE MEASURES

- 1) Health considerations and protective equipment
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Clean up spills immediately, observing precautions in Protective Equipment section.
 - Cover with plastic sheet to prevent spreading.
 - Do not enter areas which have more than 23.5% oxygen in the atmosphere, without respirator or air supplied mask.
 - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
 - Do not touch or walk through spilled material.
 - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 - Please note that materials and conditions to be avoided.
 - Prevent dust cloud.
 - Stop leak if you can do it without risk.
 - Ventilate the contaminated area.

2) Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

3) For cleaning up

- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- 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.
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Large Spill: Dike far ahead of liquid spill for later disposal.
- Reduce airborne dust and prevent scattering by moistening with water.
- Small Spill: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

- Small Spill: Flush area with flooding quantities of water.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. HANDLING AND STORAGE

- 1) Precautions for safe handling
 - No reference
- 2) Conditions for safe storage (including any incompatibilities)
 - No reference

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 1. Exposure exposure limits, Biological exposure standard:
 - * No exposure limits and biological exposure data of the product. thus data was described by the product component.

| 1 |) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC |
|---|---|
| | Other regulation (Domestic): No reference |
| | ○ ACGIH: No reference |
| | ○ biologische standard : No reference |

2) Substance1

Other regulation (Domestic): No referenceACGIH: No referencebiologische standard: No reference

3) Substance2

Other regulation (Domestic): No referenceACGIH: No referencebiologische standard: No reference

4) Substance3

Other regulation (Domestic): No referenceACGIH: No referencebiologische standard: No reference

5) Substance4

Other regulation (Domestic): No reference
 ACGIH: No reference
 biologische standard: No reference

6) Substance5

Other regulation (Domestic): No reference

○ ACGIH : No reference

O biologische standard : No reference

7) Substance6

Other regulation (Domestic): No reference

○ ACGIH : No reference

O biologische standard: No reference

2. Appropriate engineering controls

- If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
- 3. Personal protection
 - Respiratory protection
 - No reference
 - Eye protection
 - Provide emergency showers and eyewash.
 - Wear suitable protective goggles and face shields.
 - Hand protection
 - Wear insulated gloves.
 - Wear suitable protective gloves.
 - Body protection
 - Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

1. Appearances: Brown

2. Odors: slight oil

3. Odor Threshold Values: No reference

4. pH Values: No reference

5. Melting Point: No reference

6. Boiling Point: No reference

7. Flash Points: Not applicable (but, base oil flash point: 244℃(C.O.C))

8. Evaporation Rates: No reference

9. Flammability (solid, gas): No reference

10. Upper/lower flammability or explosive limits: No reference

11. Vapor Pressure: No reference

12. Water Solubilities: No reference

13. Vapor Densities: No reference

14. Specific Gravity: No reference

15. Coefficient of Octanol/Water Distribution (Kow): No reference

16. Autoignition Temperatures: No reference

17. Decomposition temperature: No reference

18. Viscosity: NLGI No.1

19. Molecular Weight: No reference

10. STABILITY AND REACTIVITY

- 1) Stability and hazardous reactivity:
 - Containers may explode when heated.
 - Fire may produce irritating, corrosive and/or toxic gases.
 - May cause toxic effects if inhaled.
 - Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
 - Some liquids produce vapors that may cause dizziness or suffocation.
 - Some may burn but none ignite readily.
 - Stable under normal temperatures and pressures.
- 2) Conditions to avoid:
 - Ignition source(heat, spark, flame, etc.).
- 3) Incompatible materials:
 - Combustibles, reducing material.
 - Irritating and/or toxic gas.
- 4) Hazardous decomposition products:
 - Corrosive/toxic fume.
 - Irritating, corrosive and/or toxic gas.

11. TOXICOLOGICAL INFORMATION

| 1) Exposure route information O by respiratory organ: No reference O by mouth: No reference | |
|---|-----|
| by skin and contact: No referenceby eye and contact: No reference | |
| 2. Health hazard information No data of the product. thus data was described by the product component. 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC) | |
| ○ ACUTE TOXICITY- Oral: Not applicable / LD50 > 5000 mg/kg Rat | |
| - Dermal: Not applicable / LD50 > 2000 mg/kg Rabbit | |
| - Inhalation-Gases : No reference | |
| - Inhalation-Vapours : No reference | |
| - Inhalation-Dust/mist: Category 4 / LC50 2.18 mg/L Rat | |
| ○ SKIN CORROSION/IRRITATION: Not applicable / Not irritating Rabbit | |
| ○ SERIOUS EYE DAMAGE/EYE IRRITATION: Not applicable / Not irritating Rabbit | |
| RESPIRATORY SENSITIZATION: No reference | |
| ○ SKIN SENSITIZATION: Not applicable / Not sensitising Guinea pig | |
| ○ CARCINOGENICITY: Not applicable | |
| - Ministry of Employment and Labor: No reference | |
| - IARC : No reference | |
| - OSHA: No reference | |
| - ACGIH: No reference | |
| - NTP: No reference | |
| - EU CLP: No reference | |
| ○ GERM CELL MUTAGENICITY: Not applicable / Negative CHO cell | |
| O REPRODUCTIVE TOXICITY: Not applicable / Reproductive performance was not adversel affected at any dose level evaluated. Rat | У |
| ○ SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: No reference | |
| O SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE : Not applicable / No system effects were observed. Rat | nic |
| ○ ASPIRATION HAZARD : No reference | |
| 2) Substance1 | |
| ○ ACUTE TOXICITY | |
| - Oral: Not applicable / LD50 4100 mg/kg Rat | |
| - Dermal : Not applicable / LD50 > 3000 mg/kg Rat | |
| - Inhalation-Gases : No reference | |
| Inhalation-Vapours: Not applicable / LC50 > 1.71 mg/L Rat | |
| - Inhalation-Dust/mist: No reference | |

| ○ SKIN CORROSION/IRRITATION: No reference |
|---|
| ○ SERIOUS EYE DAMAGE/EYE IRRITATION: No reference |
| RESPIRATORY SENSITIZATION : No reference |
| ○ SKIN SENSITIZATION: No reference |
| ○ CARCINOGENICITY: Not applicable |
| - Ministry of Employment and Labor: No reference |
| - IARC: 3 |
| - OSHA: No reference |
| - ACGIH: No reference |
| - NTP: No reference |
| - EU CLP : No reference |
| ○ GERM CELL MUTAGENICITY: Not applicable / Negative Salmonella typhimurium |
| ○ REPRODUCTIVE TOXICITY: No reference |
| O SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : Not applicable / No treatment-related deaths or toxic signs were reported. Rabbit |
| O SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable / No abnorm reactions or deaths occurred during the study in rats. Rat |
| ○ ASPIRATION HAZARD : No reference |
| 3) Substance2 |
| ACUTE TOXICITYOral : No reference |
| - Dermal : No reference |
| - Inhalation-Gases: No reference |
| - Inhalation-Vapours : No reference |
| - Inhalation-Dust/mist: No reference |
| ○ SKIN CORROSION/IRRITATION: No reference |
| ○ SERIOUS EYE DAMAGE/EYE IRRITATION: No reference |
| ○ RESPIRATORY SENSITIZATION: No reference |
| ○ SKIN SENSITIZATION: No reference |
| ○ CARCINOGENICITY: Not applicable |
| - Ministry of Employment and Labor: No reference |
| - IARC : No reference |
| - OSHA: No reference |
| - ACGIH: No reference |
| - NTP: No reference |
| - EU CLP : No reference |
| ○ GERM CELL MUTAGENICITY: No reference |
| ○ REPRODUCTIVE TOXICITY: No reference |

| SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : No reference SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE : No reference ASPIRATION HAZARD : No reference |
|--|
| 4) Substance3 |
| ACUTE TOXICITY Oral : Not applicable / LD50 > 5000 mg/kg Rat Dermal : Not applicable / LD50 > 2000 mg/kg Rabbit Inhalation-Gases : No reference Inhalation-Vapours : No reference Inhalation-Dust/mist : Category 4 / LC50 2.18 mg/L Rat SKIN CORROSION/IRRITATION : Not applicable / Not irritating Rabbit SERIOUS EYE DAMAGE/EYE IRRITATION : Not applicable / Not irritating Rabbit RESPIRATORY SENSITIZATION : No reference SKIN SENSITIZATION : Not applicable / Not sensitizing Guinea pig CARCINOGENICITY : Not applicable Ministry of Employment and Labor : No reference IARC : No reference OSHA : No reference ACGIH : No reference NTP : No reference |
| - EU CLP : No reference O GERM CELL MUTAGENICITY : Not applicable / Negative Mouse |
| O REPRODUCTIVE TOXICITY: Not applicable / Reproductive performance was not adversely affected at any dose level evaluated. Also there were no neonatal toxicity observed. Rat |
| O SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable / No clinical signs of toxicity not observed. Rat |
| O SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable / Exposed 0, 50 220 or 1000 mg/m3 for 4weeks to rat(Sprague-Dawley), no systemic effects were observed. |
| ○ ASPIRATION HAZARD : No reference |

5) Substance4

O ACUTE TOXICITY

- Oral : No reference

- Dermal : No reference

Inhalation-Gases: No referenceInhalation-Vapours: No reference

| - Inhalation-Dust/mist: No reference |
|--|
| ○ SKIN CORROSION/IRRITATION: No reference |
| ○ SERIOUS EYE DAMAGE/EYE IRRITATION: No reference |
| ○ RESPIRATORY SENSITIZATION: No reference |
| ○ SKIN SENSITIZATION: No reference |
| ○ CARCINOGENICITY: Not applicable |
| - Ministry of Employment and Labor: No reference |
| - IARC : No reference |
| - OSHA: No reference |
| - ACGIH: No reference |
| - NTP: No reference |
| - EU CLP : No reference |
| ○ GERM CELL MUTAGENICITY: No reference |
| REPRODUCTIVE TOXICITY: No reference |
| O SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : No reference |
| O SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: No reference |
| ○ ASPIRATION HAZARD: No reference |
| 6) Substance5 |
| O ACUTE TOXICITY |
| - Oral: Not applicable / LD50 5000 mg/kg Rat |
| - Dermal : No reference |
| - Inhalation-Gases: No reference |
| - Inhalation-Vapours: No reference |
| - Inhalation-Dust/mist: No reference |
| ○ SKIN CORROSION/IRRITATION: No reference |
| ○ SERIOUS EYE DAMAGE/EYE IRRITATION: No reference |
| RESPIRATORY SENSITIZATION: No reference |
| ○ SKIN SENSITIZATION: No reference |
| ○ CARCINOGENICITY: Not applicable |
| - Ministry of Employment and Labor : No reference |
| - IARC : No reference |
| - OSHA: No reference |
| - ACGIH: No reference |
| - NTP: No reference |
| - EU CLP : No reference |
| ○ GERM CELL MUTAGENICITY: No reference |
| REPRODUCTIVE TOXICITY: No reference |
| ○ SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : No reference |

| | SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: No reference ASPIRATION HAZARD: No reference |
|-------------------------|--|
| 7) Sı | ubstance6 |
| _ | ACUTE TOXICITY - Oral : No reference |
| | - Dermal : No reference |
| | - Inhalation-Gases : No reference |
| | - Inhalation-Vapours : No reference |
| | - Inhalation-Dust/mist : No reference |
| \bigcirc S | SKIN CORROSION/IRRITATION: No reference |
| \bigcirc S | SERIOUS EYE DAMAGE/EYE IRRITATION: No reference |
| \bigcirc F | RESPIRATORY SENSITIZATION: No reference |
| \bigcirc S | SKIN SENSITIZATION : No reference |
| \bigcirc (| CARCINOGENICITY: Not applicable |
| | - Ministry of Employment and Labor: No reference |
| | - IARC : No reference |
| | - OSHA: No reference |
| | - ACGIH: No reference |
| | - NTP : No reference |
| | - EU CLP: No reference |
| \bigcirc (| GERM CELL MUTAGENICITY: No reference |
| \bigcirc F | REPRODUCTIVE TOXICITY: No reference |
| \bigcirc S | SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : No reference |
| \bigcirc S | SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: No reference |
| \bigcirc $\not\vdash$ | ASPIRATION HAZARD: No reference |
| 12. ECO | LOGICAL INFORMATION |
| 1) DI | tic toxicity ISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC |
| | DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC) Fish, Crustacean, Acuatic algae: No reference |
| 2) Sı | ubstance1 |
| ○ F | Fish, Crustacean, Acuatic algae: No reference |
| 3) 61 | ibstance2 |

O Fish, Crustacean, Acuatic algae: No reference

| 4) Substance3 |
|--|
| O Fish, Crustacean, Acuatic algae: No reference |
| 5) Substance4 |
| ○ Fish, Crustacean, Acuatic algae: No reference |
| 6) Substance5 |
| O Fish, Crustacean, Acuatic algae: No reference |
| 7) Substance6 |
| O Fish, Crustacean, Acuatic algae: No reference |
| Persistence and degradation 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC) |
| 2) Substance1 |
| ○ n-octanol water partition coefficient: N/A |
| 3) Substance2 |
| O n-octanol water partition coefficient: No reference |
| 4) Substance3 |
| O n-octanol water partition coefficient: No reference |
| 5) Substance4 |
| O n-octanol water partition coefficient: log Kow 12.46 |
| 6) Substance5 |
| O n-octanol water partition coefficient: No reference |
| 7) Substance6 |
| ○ n-octanol water partition coefficient : No reference |
| Bioaccumulative potential 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC) O Bioaccumulation: No reference |
| 2) Substance1 |
| · |
| Bioaccumulation : No reference3) Substance2 |
| · |
| O Bioaccumulation: No reference |
| 4) Substance3 |
| ○ Bioaccumulation: No reference |

2.

3.

- 5) Substance4
- O Bioaccumulation: No reference
- 6) Substance5
- O Bioaccumulation: No reference
- 7) Substance6
- O Bioaccumulation: No reference
- 4. Mobility in soil
 - 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC)
 - No reference
 - 2) Substance1
 - No reference
 - 3) Substance2
 - No reference
 - 4) Substance3
 - No reference
 - 5) Substance4
 - No reference
 - 6) Substance5
 - No reference
 - 7) Substance6
 - No reference
- 5. Other adverse effects
 - 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC)
 - No reference
 - 2) Substance1
 - No reference
 - 3) Substance2
 - No reference
 - 4) Substance3
 - No reference
 - 5) Substance4
 - No reference
 - 6) Substance5
 - No reference
 - 7) Substance6
 - No reference

13. DISPOSAL CONSIDERATIONS

1) Disposal methods

- No reference
- 2) Precautions (including disposal of contaminated container of package)
 - No reference

14. TRANSPORT INFORMATION

1. UN No.: No reference

2. Proper shipping name: No reference

3. Class or division: No reference

4. Packing group: No reference

5. Marine pollutant: No reference

- 6. Special safety response for transportation or transportation measure:
 - O Classification to Fire: Not classified
 - O Classification to oil spillage: Not classified
- 7. AIR(IATA): Not Regulated for Air Transport

15. REGULATORY INFORMATION

- 가. Occupational safety and health act
 - 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC)
 - No reference
 - 2) Substance1
 - No reference
 - 3) Substance2
 - No reference
 - 4) Substance3
 - No reference
 - 5) Substance4
 - No reference
 - 6) Substance5
 - No reference
 - 7) Substance6
 - No reference
- 나. Toxic chemical control act

1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC)

- Existing Chemical Substance

2) Substance1

- Existing Chemical Substance

3) Substance2

- Existing Chemical Substance

4) Substance3

- Existing Chemical Substance

5) Substance4

- Existing Chemical Substance

6) Substance5

- Existing Chemical Substance, Pollutant Release and Transfer Registers

7) Substance6

- Existing Chemical Substance
- 3. Safety Control gefährlicher Stoffe wirken in Korea Not classified
- 4. Abfälle Control Act in Korea 06-01-06, other
- 5. Sonstige Vorschriften in Korea und im Ausland Vorschriften
 - 1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC)
 - Other regulation (Domestic): No reference
 - O National regulations:
 - -EU Classification (CLASSIFICATION): Carc.Cat.2; R45
 - -EU Classification (Risk Phrases): R45
 - -EU Classification (Safety Phrases): S:53-45

2) Substance1

- Other regulation (Domestic): No referenceNational regulations: No reference
- 3) Substance2
- Other regulation (Domestic): No reference
- National regulations : No reference

4) Substance3

- Other regulation (Domestic): No reference
- O National regulations:
 - -EU Classification (CLASSIFICATION): Carc.Cat.2; R45
 - -EU Classification (Risk Phrases): R45
 - -EU Classification (Safety Phrases): S:53-45

5) Substance4

- Other regulation (Domestic): No reference
- O National regulations: No reference

6) Substance5

- Other regulation (Domestic): No reference
- O National regulations: No reference

7) Substance6

- Other regulation (Domestic): No reference
- O National regulations: No reference

16. OTHER INFORMATION

- 1. Reference:
 - CCR
 - CCRIS
 - ECOTOX
 - EPISUITE
 - EU CLP
 - HSDB
 - IARC
 - IUCLID
 - J Appl Toxicol, Vol 11(4), pp 297-302
 - NITE
 - Publication
 - Study report
 - publication
- 2. Prepare date: 2011-05-13
- 3. Revised date: 1th revised edition 2011. 5.18

2th revised edition - 2012. 8.29 3th revised edition - 2013. 6. 6

4. Other: following revised GHS