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

| 1.1 Product identifier | | | | | |
|--|-------|---|--|--|--|
| Product name | : | SH-100 | | | |
| Article-No. | : | 340465 | | | |
| 1.2 Relevant identified uses of | the s | substance or mixture and uses advised against | | | |
| Use of the Substance/Mixture | : | Lubricating oil | | | |
| Recommended restrictions on use | : | Restricted to professional users. | | | |
| 1.3 Details of the supplier of the | e saf | ety data sheet | | | |
| Company | : | Klüber Lubrication NA LP 9010 County Road 2120 Tyler, Texas 75707 USA Phone: +1 903 534-8021 Fax: +1 903 581-4376 32 Industrial Drive | | | |
| | | Londonderry, NH 03053 USA Phone: +1 603 647-4104 Fax: +1 603 647-4106 | | | |
| E-mail address of person responsible for the SDS | : | mcm@us.kluber.com Material Compliance Management | | | |
| National contact | : | | | | |
| 1.4 Emergency telephone number | | | | | |
| Emergency telephone number | : | +49 89 7876 700 (24 hrs) | | | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

:

3.2 Mixtures

Chemical nature

Synthetic hydrocarbon oil ester oil

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | specific concentration limit M-Factor Notes Acute toxicity | Concentration (% w/w) |
|--|---|--|---|--------------------------|
| Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene | 68411-46-1 270-128-1 | Repr.2; H361f Aquatic Chronic3; H412 | estimate | >= 1 - < 2.5 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

: Obtain medical attention.



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| In ca | se of skin contact | medical attention. Keep patient warm and at resulf unconscious, place in recovadvice. Keep respiratory tract clear. If breathing is irregular or stop respiration. Take off all contaminated clot Get medical attention immedi persists. Wash clothing before reuse. | very position and seek medical oped, administer artificial thing immediately. iately if irritation develops and |
| In ca | se of eye contact | Thoroughly clean shoes before Wash off immediately with please Rinse immediately with plenty for at least 10 minutes. If eye irritation persists, construction | enty of water. y of water, also under the eyelids |
| lf swa | allowed | Move the victim to fresh air. If unconscious, place in recov advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth | very position and seek medical |
| 4.2 Most | important symptom | s and effects, both acute and delay | ed |
| Symp | ptoms | : No information available. | |
| Risks | 3 | : None known. | |
| 4.3 Indica | ation of any immedia | te medical attention and special tre | eatment needed |
| Treat | tment | : No information available. | |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media | | | | |
|--------------------------------|---|--|--|--|
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. | | |
| Unsuitable extinguishing media | : | High volume water jet | | |



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5.2 Special hazards arising from the substance or mixture

| Hazardous combustion products | : | Carbon oxides Nitrogen oxides (NOx) |
|---|---|---|
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health. |
| Further information | : | Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, protect | ive equipment and emergency procedures |
|-----------------------------------|--|
| Personal precautions | Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8. |
| 6.2 Environmental precautions | |
| Environmental precautions | : Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |
| 6.3 Methods and material for cont | tainment and cleaning up |
| Methods for cleaning up | Contain spillage and then collect with non-combustible |

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | : Do not breathe vapours or spray mist. |
|-------------------------|--|
| | Avoid contact with skin and eyes. |
| | For personal protection see section 8. |
| | Smoking, eating and drinking should be prohibited in the |



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| | | handling the produ Do not get in eyes Do not get on skin Do not ingest. Do not repack. Do not re-use emp These safety instru may still contain pr | or mouth or on skin. or clothing. ty containers. uctions also apply to em | · |
| Hygi | ene measures | : Wash face, hands handling. | and any exposed skin t | horoughly after |
| 7.2 Cond | itions for safe storag | , including any incomp | atibilities | |
| | uirements for storage s and containers | use. Keep in a dry, which are opened to prevent leakage | ntainer. Keep container cool and well-ventilate must be carefully resea . Store in accordance w s. Keep in properly labe | d place. Containers led and kept upright ith the particular |
| • | ific end use(s) cific use(s) | : Specific instruction | s for handling, not requ | ired. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|---------|-----------------|-------------------------------|----------------------|
| Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene | Workers | Inhalation | Long-term systemic effects | 0.31 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.44 mg/kg bw/day |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|--|---|------------|
| Benzenamine, N-phenyl-, reaction products with 2,4,4- | Fresh water | 0.034 mg/l |
| trimethylpentene | | |
| | Marine water | 0.003 mg/l |
| | Microbiological Activity in Sewage Treatment Systems | 10 mg/l |



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| Fresh water sediment | 0.446 mg/kg |
|----------------------|-------------|
| Marine sediment | 0.045 mg/kg |
| Soil | 1.76 mg/kg |

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

| Personal protective equipme | ent | |
|---|-----|---|
| Eye/face protection | : | Safety glasses with side-shields |
| Hand protection Material Break through time Protective index | : | Nitrile rubber > 10 min Class 1 |
| Remarks | : | Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. |
| Skin and body protection | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. |
| Respiratory protection | : | Not required; except in case of aerosol formation. |
| Filter type | : | Filter type A-P |
| Protective measures | : | The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : | liquid |
|-----------------|---|-------------------|
| Colour | : | colourless |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| | | |

рΗ

: Not applicable



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| | | | | |
| M | elting point/range | : | No data available | |
| Bo | piling point/boiling range | : | No data available | |
| Fla | ash point | : | >= 240 °C Method: open cup | |
| E٧ | vaporation rate | : | No data available | |
| Fla | ammability (solid, gas) | : | Not applicable | |
| | oper explosion limit / Upper Immability limit | : | No data available | |
| | ower explosion limit / Lower ammability limit | : | No data available | |
| Va | apour pressure | : | < 1.3 hPa (20 °C) | |
| Re | elative vapour density | : | No data available | |
| Re | elative density | : | 0.86 (20 °C) Reference substance: Water The value is calculated | |
| De | ensity | : | 0.86 g/cm3 (20 °C) | |
| Βι | ulk density | : | No data available | |
| So | blubility(ies) Water solubility | : | insoluble | |
| | Solubility in other solvents | : | No data available | |
| | artition coefficient: n- stanol/water | : | No data available | |
| Αι | uto-ignition temperature | : | > 400 °C | |
| De | ecomposition temperature | : | No data available | |
| Vi | scosity Viscosity, dynamic | : | No data available | |
| | Viscosity, kinematic | : | 100 mm2/s (40 °C) | |
| Ex | cplosive properties | : | Not explosive | |
| O | xidizing properties | : | No data available | |



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| | | | | |
| 9.2 Other | information | | | |
| Subli | mation point | : N | lo data available | |
| Self-i | gnition | : N | lo data available | |
| | | | | |
| SECTIO | N 10: Stability and | reactivit | у | |
| 10.1 Read | ctivity | | | |
| No h | azards to be specially | / mentione | d. | |
| 10.2 Chei | nical stability | | | |
| Stabl | e under normal cond | itions. | | |
| 10.3 Poss | sibility of hazardous | reactions | ; | |
| Haza | rdous reactions | : N | lo dangerous reaction known ur | nder conditions of normal use. |
| 10.4 Con | ditions to avoid | | | |
| Conc | litions to avoid | : N | lo conditions to be specially me | ntioned. |
| 10.5 Inco | mpatible materials | | | |
| Mate | rials to avoid | : N | lo materials to be especially me | ntioned. |
| 10 6 Haza | ardous decompositi | on produc | te | |

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Acute oral toxicity | : | Remarks: This information is not available. |
|---------------------------|---|---|
| Acute inhalation toxicity | : | Remarks: This information is not available. |
| Acute dermal toxicity | : | Remarks: This information is not available. |

Components:

| Benzenamine, N-phenyl-, rea | acti | ion products with 2,4,4-trimethylpentene: |
|-----------------------------|------|--|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 |
| Acute dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg |



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| | | | |
| | | Method: OECD Test Guid Assessment: The substan toxicity | leline 402 nce or mixture has no acute der |
| Skin | corrosion/irritation | | |
| Produ | uct: | | |
| Rema | | : This information is not av | ailable. |
| <u>Com</u> | oonents: | | |
| Benz | enamine, N-phenyl- | reaction products with 2,4,4-tr | imethylpentene: |
| Speci | es | : Rabbit | |
| | ssment | : No skin irritation | |
| Metho | | : OECD Test Guideline 404 | 4 |
| Resu | IT | : No skin irritation | |
| Serio | us eye damage/eye | irritation | |
| Produ | | - | |
| Rema | arks | : This information is not av | alladie. |
| <u>Com</u> | oonents: | | |
| | | reaction products with 2,4,4-tr | imethylpentene: |
| Speci | | : Rabbit | |
| | ssment | : No eye irritation | _ |
| Metho Resul | | : OECD Test Guideline 40 | 0 |
| Resu | IL | : No eye irritation | |
| Resp | iratory or skin sens | itisation | |
| Produ | | | |
| Rema | arks | : This information is not av | ailable. |
| <u>Com</u> | oonents: | | |
| Benz | enamine, N-phenyl- | reaction products with 2,4,4-tr | imethylpentene: |
| Speci | | : Guinea pig | |
| | ssment | : Did not cause sensitisatio | |
| Metho Resul | | : OECD Test Guideline 400 : Did not cause sensitisation | |
| Germ | cell mutagenicity | | - |
| | | | |
| | UCT: | | |
| Produ | toxicity in vitro | : Remarks: No data availal | |



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| | Genot | oxicity in vivo | : R | emarks: No data available | |
| (| Carcinogenicity | | | | |
| - | Produ Rema | | : N | lo data available | |
| Reproductive toxicity | | | | | |
| ļ | Produ | <u>ct:</u> | | | |
| ļ | Effects | s on fertility | : R | emarks: No data available | |
| | | s on foetal pment | : R | emarks: No data available | |
| 9 | Comp | onents: | | | |
| Benzenamine, N-phenyl-, | | reactior | n products with 2,4,4-trimethylpent | ene: | |
| | Reproductive toxicity - Assessment | | : - | Fertility - | |
| Assessment | | | some evidence of adverse effects on e ertility, based on animal experiments. | | |
| ; | ѕтот | - single exposure | | | |
| - | Produ Rema | | : N | lo data available | |
| : | ѕтот | - repeated exposure | 9 | | |
| <u> </u> | Produ | <u>ct:</u> | | | |
| l | Rema | rks | : N | lo data available | |
| I | Repea | ted dose toxicity | | | |
| | Produ | | | | |
| | Rema | rks | : Т | his information is not available. | |
| | Aspira | ation toxicity | | | |
| - | Produ This in | <u>ct:</u> formation is not avail | able. | | |
| I | Furthe | er information | | | |
| - | Produ | | | | |
| I | Rema | rks | | nformation given is based on data on ne toxicology of similar products. | the components and |



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SECTION 12: Ecological information

12.1 Toxicity

| Product: | | |
|---|---|--|
| Toxicity to fish | : | Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: No data available |
| Toxicity to algae/aquatic plants | : | Remarks: No data available |
| Toxicity to microorganisms | : | Remarks: No data available |

12.2 Persistence and degradability

| Product: | |
|------------------|--|
| Diadaaradahilitu | |

| Biodegradability | : | Remarks: No data available |
|----------------------------------|---|----------------------------|
| Physico-chemical removability | : | Remarks: No data available |

12.3 Bioaccumulative potential

| Product: |
|----------|
|----------|

| Bioaccumulation | : Remarks: This mixture contains no substance considered to |
|-----------------|---|
| | be persistent, bioaccumulating and toxic (PBT). |
| | This mixture contains no substance considered to be very |
| | persistent and very bioaccumulating (vPvB). |

12.4 Mobility in soil

| <u>Product:</u> Mobility | : | Remarks: No data available |
|--|---|----------------------------|
| Distribution among environmental compartments | : | Remarks: No data available |

12.5 Results of PBT and vPvB assessment

Product:

| Assessment | | This substance/mixture contains no components considered |
|------------|--|--|
| | | to be either persistent, bioaccumulative and toxic (PBT), or |



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| | | | persistent and very bioaccumulative or higher. | e (vPvB) at levels of | | | |
| 12.6 Other adverse effects | | | | | | | |
| Product: | | | | | | | |
| Endocrine disrupting potential | | consi to RE (EU) | substance/mixture does not contain dered to have endocrine disrupting ACH Article 57(f) or Commission E 2017/2100 or Commission Regulat s of 0.1% or higher. | properties according Delegated regulation | | | |
| Additional ecological information | | : Harm | ful to aquatic life with long lasting e | ffects. | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Waste treatment methods | |
|-----------------------------|--|
| Product : | The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations. |
| | Waste codes should be assigned by the user based on the application for which the product was used. |
| Contaminated packaging : | Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations. |
| | The following Waste Codes are only suggestions: |
| Waste Code : | unused product 13 02 06*, synthetic engine, gear and lubricating oils |
| | uncleaned packagings 15 01 10*, packaging containing residues of or contaminated by hazardous substances |
| | |

SECTION 14: Transport information

14.1 UN number or ID number

ADR

: Not regulated as a dangerous good



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| | | | |
| RID | | : Not regulated as a dangerous go | bod |
| IMDO | G | : Not regulated as a dangerous go | bod |
| ΙΑΤΑ | | : Not regulated as a dangerous go | bod |
| 14.2 UN p | proper shipping nam | le | |
| ADR | | : Not regulated as a dangerous go | bod |
| RID | | : Not regulated as a dangerous go | bod |
| IMDO | G | : Not regulated as a dangerous go | bod |
| ΙΑΤΑ | A | : Not regulated as a dangerous go | bod |
| 14.3 Tran | sport hazard class(| es) | |
| ADR | | : Not regulated as a dangerous go | bod |
| RID | | : Not regulated as a dangerous go | bod |
| IMDO | G | : Not regulated as a dangerous go | bod |
| ΙΑΤΑ | A | : Not regulated as a dangerous go | bod |
| 14.4 Pack | king group | | |
| ADR | | : Not regulated as a dangerous go | bod |
| RID | | : Not regulated as a dangerous go | bod |
| IMDO | G | : Not regulated as a dangerous go | bod |
| ΙΑΤΑ | A (Cargo) | : Not regulated as a dangerous go | bod |
| ΙΑΤΑ | A (Passenger) | : Not regulated as a dangerous go | bod |
| 14.5 Envi | ironmental hazards | | |
| ADR | | : Not regulated as a dangerous go | bod |
| RID | | : Not regulated as a dangerous go | bod |
| IMDO | G | : Not regulated as a dangerous go | bod |
| - | cial precautions for u | user | |
| 14.7 Mari | itime transport in bu | Ik according to IMO instruments | |
| Rem | arks | : Not applicable for product as sup | oplied. |
| | | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

: Not applicable



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| (EC 1005/2009) | | | | | | | | | | |
| UK REACH List of substances subject to authorisation : Not applicable (Annex XIV) (UK. REACH Annex XIV) | | | | | | | | | | |
| GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation (GB PIC) | | | | | | | | | | |
| | gulation (EU) 2019/1148 losives precursors | on the marketing and use of : | Not applicable | | | | | | | |
| Vol | atile organic compounds | | 4 November 2010 on industrial ution prevention and control) | | | | | | | |

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

| Full | text | of | H-Statements |
|-------|------|------------|---------------|
| I MII | LOVE | U 1 | IT Otatomonto |

| H361f | : | Suspected of damaging fertility. |
|-------|---|--|
| H412 | : | Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -



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International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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