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SECTION 1. IDENTIFICATION

| Product name | : | BARRIER FLUID 5 | | | |
|---|------|---|--|--|--|
| Article-No. | : | 340011 | | | |
| Other means of identification | : | No data available | | | |
| Manufacturer or supplier's o | deta | ails | | | |
| Company name of supplier | : | 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 | | | |
| Emergency telephone number | : | +1-517-545-7070 NCEC | | | |
| Recommended use of the chemical and restrictions on use | | | | | |
| Recommended use | : | Lubricating oil | | | |
| Restrictions on use | : | Restricted to professional users. | | | |

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

| Acute toxicity (Inhalation) | : | Category 4 |
|-----------------------------|---|------------|
| Reproductive toxicity | : | Category 2 |
| Aspiration hazard | : | Category 1 |

GHS label elements





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|-------------|---------------------------|---|----------------------------|
| Haza | rd pictograms | | |
| Signa | al word | : Danger | |
| Haza | rd statements | : May be fatal if swallowed and enter Harmful if inhaled. Suspected of damaging fertility. | ers airways. |
| Preca | autionary statements | : Prevention: Obtain special instructions before Wear protective gloves/ protective protection. | |
| | | Response: IF SWALLOWED: Immediately ca Do NOT induce vomiting. | II a POISON CENTER/ docto |
| | | Storage: Store locked up. | |
| | | Disposal: Dispose of contents/ container to plant. | an approved waste disposal |
| Othe | r hazards | | |
| None | known. | | |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Synthetic hydrocarbon oil

Components

| Chemical name | Common Name/Synonym | CAS-No. | Concentration (% w/w) |
|--|---|------------|-----------------------------------|
| Dec-1-ene, dimers, hydrogenated | Dec-1-ene, dimers, hydrogenated | 68649-11-6 | Trade secret** (>= 80 - <= 100 *) |
| Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene | Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpenten e | 68411-46-1 | Trade secret** (>= 0.1 - < 1 *) |





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* Actual concentration or concentration range is withheld as a trade secret

** See Section 15 for HMIRA information.

SECTION 4. FIRST AID MEASURES If inhaled Obtain medical attention. 1 Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration. In case of skin contact Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Rinse immediately with plenty of water, also under the eyelids, In case of eye contact 5 for at least 10 minutes. Seek medical advice. If swallowed Move the victim to fresh air. 2 If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Risk of product entering the lungs on vomiting after ingestion. Most important symptoms : Health injuries may be delayed. and effects, both acute and May cause an allergic skin reaction. delayed Inhalation may provoke the following symptoms: Headache Nausea Allergic appearance Aspiration may cause pulmonary oedema and pneumonitis. Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.



Treat symptomatically.



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SECTION 5. FIREFIGHTING MEASURES

| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|---|---|--|
| Unsuitable extinguishing media | : | High volume water jet |
| Hazardous combustion products | : | Carbon oxides |
| Further information | : | Standard procedure for chemical fires. |
| 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. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | : | 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. |
|---|---|--|
| Environmental precautions | : | Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and 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). |

SECTION 7. HANDLING AND STORAGE

| Advice on safe handling | Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory |
|-------------------------|--|
| | equipment. Avoid contact with skin and eyes. |
| | For personal protection see section 8. |
| | Persons with a history of skin sensitisation problems or |
| | asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is |





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| Condit | tions for safe storage | being used. Smoking, eating and drinking sho application area. Wash hands and face before breat handling the product. Do not get in eyes or mouth or on Do not get on skin or clothing. Do not ingest. Do not repack. Do not re-use empty containers. These safety instructions also app may still contain product residues Keep container closed when not in Keep in a dry, cool and well-ventil Containers which are opened musikept upright to prevent leakage. Store in accordance with the partitikeep in properly labelled container | aks and immediately after skin. bly to empty packaging which n use. n use. ated place. st be carefully resealed and cular national regulations. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components with workplace control parameters Contains no substances with occupational exposure limit values. | | | |
|--|-----|---|--|
| Engineering measures | : | Handle only in a place equipped with local exhaust (or other appropriate exhaust). | |
| Personal protective equipm | ent | | |
| Respiratory protection | : | Not required; except in case of aerosol formation. | |
| Filter type | : | Filter type A-P | |
| 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. | |
| Eye protection | : | Safety glasses with side-shields | |
| Skin and body protection | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to | |





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| | | the specific work-place. | |
| Prote | ctive measures | : The type of protective equipment to the concentration and amount at the specific workplace. | - |
| Hygie | ene measures | : Wash face, hands and any expos handling. | ed skin thoroughly after |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|---|
| Colour | : | colourless |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| рН | : | Not applicable substance/mixture is non-soluble (in water) |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | 160 °C Method: Cleveland open cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Self-ignition | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | < 1.3 hPa (20 °C) |



SAFETY DATA SHEET



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| | | | | |
| Relat | tive vapour density | : | No data available | |
| Relat | tive density | : | 0.796 (20 °C) Reference substance: Water The value is calculated | |
| Bulk | density | : | No data available | |
| | bility(ies) /ater solubility | : | insoluble | |
| S | olubility in other solvents | 3 : | No data available | |
| | tion coefficient: n- nol/water | : | No data available | |
| Auto | -ignition temperature | : | No data available | |
| Decc | mposition temperature | : | No data available | |
| Visco Vi | osity iscosity, dynamic | : | No data available | |
| Vi | iscosity, kinematic | : | 5 mm2/s (40 °C) | |
| Explo | osive properties | : | Not explosive | |
| Oxidi | izing properties | : | No data available | |
| Subli | mation point | : | No data available | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | No hazards to be specially mentioned. |
|------------------------------------|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : | No conditions to be specially mentioned. |
| Incompatible materials | : | No materials to be especially mentioned. |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |





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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

| Product: | |
|------------------------------|---|
| | Remarks: This information is not available. |
| Acute inhalation toxicity : | Remarks: Harmful by inhalation. |
| | Acute toxicity estimate: 1.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method |
| Acute dermal toxicity : | Symptoms: Redness, Local irritation |
| Components: | |
| Dec-1-ene, dimers, hydrogena | ited: |
| Acute oral toxicity : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes |
| Acute inhalation toxicity : | LC50 (Rat): 1.17 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes |
| Acute dermal toxicity : | LD50 (Rabbit): > 3,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity |
| Benzenamine, N-phenyl-, reac | tion 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 Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity |
| Skin corrosion/irritation | |
| Product: Remarks | This information is not available. |





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Components:

Dec-1-ene, dimers, hydrogenated:

| Species : | Rabbit |
|--------------|-------------------------|
| Assessment : | No skin irritation |
| Method : | OECD Test Guideline 404 |
| Result : | No skin irritation |

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

| Species | : Rabbit |
|------------|---------------------------|
| Assessment | : No skin irritation |
| Method | : OECD Test Guideline 404 |
| Result | : No skin irritation |
| | |

Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

| Species | : Rabbit |
|----------------------|---------------------------|
| Result | : No eye irritation |
| Assessment | : No eye irritation |
| Method | : OECD Test Guideline 405 |
| Result Assessment | : No eye irritation |

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

| Species | Rab | bit |
|------------|------|-----------------------|
| Result | No e | eye irritation |
| Assessment | No e | eye irritation |
| Method | OEC | CD Test Guideline 405 |

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

| Test Type | : | Maximisation Test |
|------------|---|------------------------------------|
| Species | : | Guinea pig |
| Assessment | : | Does not cause skin sensitisation. |
| Method | : | OECD Test Guideline 406 |
| Result | : | Does not cause skin sensitisation. |
| GLP | : | yes |





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| | | | |
| | | reaction products with 2,4,4- | trimethylpentene: |
| Speci | | : Guinea pig | ion on laboratory animala |
| Metho | sment | : OECD Test Guideline 4 | ion on laboratory animals. |
| Resul | | | ion on laboratory animals. |
| | | | |
| Germ | cell mutagenicity | | |
| <u>Produ</u> | uct: | | |
| Geno | toxicity in vitro | : Remarks: No data availa | able |
| Geno | toxicity in vivo | : Remarks: No data availa | able |
| - · | | | |
| Carci | nogenicity | | |
| <u>Produ</u> | | | |
| Rema | urks | : No data available | |
| Repro | oductive toxicity | | |
| <u>Produ</u> | <u>uct:</u> | | |
| Effect | s on fertility | : Remarks: No data availa | able |
| | s on foetal opment | : Remarks: No data availa | able |
| <u>Comp</u> | oonents: | | |
| Benze | enamine, N-phenyl | reaction products with 2,4,4- | trimethylpentene: |
| | oductive toxicity - | : - Fertility - | |
| Asses | ssment | Some evidence of advert fertility, based on anima | rse effects on sexual function and I experiments. |
| Repe | ated dose toxicity | | |
| <u>Produ</u> | uct: | | |
| Rema | | : This information is not a | vailable. |
| Aspir | ation toxicity | | |
| Produ | uct: | | |
| | be fatal if swallowed | nd enters airways. | |
| <u>Comp</u> | oonents: | | |
| | -ene, dimers, hydr | nenated. | |
| | be fatal if swallowed | - | |





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Further information

Product:

Remarks

Information given is based on data on the components and the toxicology of similar products.

SECTION 12. ECOLOGICAL INFORMATION

| Ecotoxicity | |
|-------------|--|
|-------------|--|

Product:

Toxicity to fish

Remarks: No data available

| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: No data available |
|---|---|----------------------------|
| Toxicity to algae/aquatic plants | : | Remarks: No data available |

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Remarks: No data available Toxicity to microorganisms :

Components:

Dec-1-ene, dimers, hydrogenated: Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l : Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l aquatic invertebrates Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes Toxicity to algae/aquatic EC50 (Scenedesmus capricornutum (fresh water algae)): > 2 1,000 mg/l plants Exposure time: 72 h Test Type: static test





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| | | | Method: OECD Test Guideline 20 GLP: yes | 1 |
| aquati | ty to daphnia and other ic invertebrates nic toxicity) | : | NOEC (Daphnia magna (Water fle Exposure time: 21 d Method: OECD Test Guideline 21 GLP: yes | |
| Benze | enamine, N-phenyl-, re | eact | ion products with 2,4,4-trimethyl | |
| Toxici | ty to fish | : | LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20 | <u> </u> |
| | ty to daphnia and other ic invertebrates | : | EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20 | |
| Toxici plants | ty to algae/aquatic | : | EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 | |
| Persis | stence and degradabi | lity | | |
| <u>Produ</u> Biode | ıct: gradability | : | Remarks: No data available | |
| | co-chemical /ability | : | Remarks: No data available | |
| Comp | oonents: | | | |
| | -ene, dimers, hydroge gradability | enat : | ed: Result: Not rapidly biodegradable | |
| | e namine, N-phenyl-, re gradability | eact : | ion products with 2,4,4-trimethyl aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % | |
| | | | | a brand of |





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| | | | Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes | |
| Bioad | cumulative potential | | | |
| <u>Produ</u> | - | : | Remarks: This mixture contains no sub be persistent, bioaccumulating and toxi This mixture contains no substance cor persistent and very bioaccumulating (vf | c (PBT). nsidered to be very |
| <u>Com</u> | oonents: | | | |
| Dec-1 | l-ene, dimers, hydroge | enat | ed: | |
| Partiti | ion coefficient: n- ol/water | : | | |
| Benz | enamine, N-phenyl-, re | eact | ion products with 2,4,4-trimethylpente | ne: |
| | ion coefficient: n- ol/water | : | log Pow: > 5 | |
| Mobi | lity in soil | | | |
| Produ | uct: | | | |
| Mobili | | : | Remarks: No data available | |
| | oution among onmental compartments | : | Remarks: No data available | |
| Other | adverse effects | | | |
| <u>Produ</u> Additi inform | onal ecological | : | No information on ecology is available. | |
| <u>Com</u> | oonents: | | | |
| Dec-1 | l-ene, dimers, hydroge | enat | ed: | |
| | ts of PBT and vPvB ssment | : | This substance is not considered to be bioaccumulating and toxic (PBT). This s considered to be very persistent and ver (vPvB). | substance is not |
| | | | | |





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SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods Waste from residues : | 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. |
|--|--|
| 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. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

TDG Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

NPRI Components

: Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

Canadian lists

No substances are subject to a Significant New Activity Notification.





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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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 -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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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