SAFETY DATA SHEET

Issue Date 19-Jul-2018 **Revision Date** 19-Jul-2018 **Version** 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name SHV- 15

Other means of identification
Product code: 340159
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Lubricant.
Uses advised against No information available

Details of the supplier of the safety data sheet
Supplier Address
Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
Phone: (903) 534-8021
Fax: (903) 581-4376

Emergency telephone number
Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS 2015 Regulatory Status
This chemical is considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Aspiration toxicity	Category 1

Label Elements

EMERGENCY OVERVIEW

Signal word
Danger

Hazard statements
Harmful if inhaled
May be fatal if swallowed and enters airways

Appearance Oil **Physical state** Liquid **Odor** Mild

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting

Precautionary Statements - Storage
Store locked up
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other information
• May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This material is considered hazardous by the Canadian Hazardous Products Regulation (WHMIS 2015).

Components	CAS-No	Weight %	Trade Secret
1-Decene, Dimer, hydrogenated	68649-11-6	7 - 13%	*
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	68515-49-1	3 - 7%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Immediate medical attention is not required.

Skin contact: Immediate medical attention is not required.

Inhalation: In the case of inhalation of aerosol/mist consult a physician if necessary.

Ingestion: Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Carbon dioxide (CO2). Dry chemical. Foam. Water spray.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire
Specific hazards arising from the chemical
Water may be used to cool closed containers.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for firefighters:
Standard procedure for chemical fires. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Contaminated surfaces will be extremely slippery.

Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Spilling onto the container`s outside will make container slippery. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers dry and tightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m^3, ACGIH STEL of 10 mg/m^3.

Components	ACGIH TLV	OSHA (TWA mg/m^3):	IDLH:
1-Decene, Dimer, hydrogenated - 68649-11-6	5 mg/m^3 (oil mist)	5 mg/m^3 (oil mist)	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: Breathing apparatus needed only when aerosol or mist is formed.
Hand protection: Nitrile rubber
Eye protection: Safety glasses
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect
General Hygiene Considerations Wash off with soap and water. When using, do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Oil **Odor** Mild **Color** Clear **Odor threshold** No information available

Property	Values	Remarks • Method	Property	Values
Melting point/freezing point	No information available		**pH**	Not applicable
			Boiling point / boiling range	> 315 °C / 600 °F
Flash point	> 204 °C / 400 °F	Cleveland Open Cup		
			Evaporation rate	No information available
Flammability (solid, gas)	No information available		**Flammability Limit in Air**	
Upper flammability limit:	No information available		**Lower flammability limit:**	No information available
Vapor pressure	< 0.00047 @ 100°F		**Vapor density**	No information available
Specific Gravity	< 1.0		**Water solubility**	Insoluble in water
Solubility in other solvents	No information available		**Partition coefficient**	No information available
Autoignition temperature	No information available		**Decomposition temperature**	No information available
Kinematic viscosity	approx. 15.2 cSt @ 40 ° C		**Dynamic viscosity**	No information available

Explosive properties No information available
Oxidizing properties No information available

Other information

Softening point No information available
Molecular weight No information available
VOC Content (%) No information available
Density No information available
Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity
Not applicable

Chemical stability

Stability Stable under recommended storage conditions

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products None reasonably foreseeable

Incompatible materials

Incompatible materials Oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation

Eye contact May cause slight irritation.

Skin contact Substance does not generally irritate and is only mildly irritating to the skin.

Inhalation Harmful by inhalation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	> 60000 mg/kg (Rat)	= 16000 mg/kg (Rabbit)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No sensitization responses were observed.
Mutagenic effects: Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure None under normal use conditions.
STOT - Repeated Exposure None under normal use conditions.
Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 6121 mg/kg
ATEmix (dermal) 2443 mg/kg
ATEmix (inhalation-dust/mist) 5 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

0.008662858% of the mixture consists of components(s) of unknown hazards to the aquatic environment

1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	
Algae/aquatic plants	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50
Fish	0.55: 96 h Lepomis macrochirus mg/L LC50 static 0.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.66: 96 h Pimephales promelas mg/L LC50 static 1: 96 h Oncorhynchus mykiss mg/L LC50 static 1: 96 h Pimephales promelas mg/L LC50 flow-through
Crustacea	0.18: 48 h Daphnia magna mg/L EC50

Persistence and degradability
Readily biodegradable, according to appropriate OECD test. (based on components).

Bioaccumulation
No information available.

Mobility
The product is insoluble and floats on water.

Components	Partition coefficient
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	8.8

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

TDG Not Regulated

IATA-DGR Not Regulated

IMO / IMDG Not Regulated

15. REGULATORY INFORMATION

International Inventories
TSCA: Listed in TSCA

DSL:	All of the components in this product are listed in DSL
EINECS/ELINCS	This product complies with EINECS/ELINCS
CHINA:	This product complies with China IECSC.
KECL:	This product complies with Korea KECL.
PICCS:	This product complies with Philippines PICCS.
AICS:	All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Canada HPR Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

Components	California Proposition 65 CRT List - Hazard Designation:
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	Listed: April 20, 2007 Developmental Toxicity

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	Not Listed	Not Listed	Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA:
Health: 1
Flammability: 1
Instability 0
NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *
HMIS health rating:
Health: 2
Flammability: 1
Physical hazards 0
Personal protection B

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Revision Note	

Reason for revision: Not applicable

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet