



MSD211

Rev. A

Date: 2019-November 25

| | | |
|------------------|---|-------------------------|
| Supplier: | Graco Inc. P.O. Box 1441 88 11th Ave. NE Minneapolis, MN 55440-1441 Contact: www.graco.com | |
| | Product Name: | KLÜBERSYNTH BEM 44-4600 |
| | Graco Part Number(s): | 070739 |
| | Material Manufacturer: | KLÜBER LUBRICATION |
| | Material Manufacturer P/N: | KLÜBERSYNTH BEM 44-4600 |

Material manufacturer's SDS
starts on the next page.

For the most current SDS visit
the manufacturer's website.



SAFETY DATA SHEET

Issue Date 19-Jul-2016

Revision Date 19-Jul-2016

Version 2

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

Product identifier

Product Name Klübersynth BEM 44-4600

Other means of identification

Product code: 004319

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA LP 32

Industrial Drive

Londonderry, NH 03053

Phone: (603) 647-4104

Fax: (603) 647-4106

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)

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |

Label Elements

Signal word

Warning

EMERGENCY OVERVIEW

Hazard statements

Causes serious eye irritation

May cause an allergic skin reaction

**Appearance** Paste**Physical state** Solid**Odor** Mild**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

Unknown Acute Toxicity

11.419% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

| Components | CAS-No | Weight % | Trade Secret |
|--|-------------|----------|--------------|
| 3-(Diisobutoxy-thiophosphorylsufanyl)-2-methylpropionic acid | 268567-32-4 | 1 - 2.5% | * |

4. FIRST AID MEASURES

First aid measures**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**Skin contact:** Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.**Inhalation:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.**Ingestion:** Do not induce vomiting. Consult a physician.**Most important symptoms and effects, both acute and delayed****Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Carbon dioxide (CO₂). Dry chemical. Dry sand. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. 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:

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions: Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains. Avoid subsoil penetration.

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: Scrape-up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Soak up with oil absorbent material.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Do not breathe vapors or spray mist. Spilling onto the container's outside will make container slippery. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep cool. Keep in properly labelled containers. Keep away from heat and sources of ignition

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/m³, ACGIH STEL of 10 mg/m³.

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:

No personal respiratory protective equipment normally required.

Hand protection:

Impervious gloves

Eye protection:

Avoid contact with eyes Safety glasses with side-shields.

Skin and body protection:

Usual safety precautions while handling the product will provide adequate protection against this potential effect

General Hygiene Considerations

Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

Appearance Paste

Odor Mild

Color Tan

Odor threshold No information available

Property **Values** **Remarks • Method**

Melting point/freezing point No information available

Flash point Not Applicable ISO 2592

Flammability (solid, gas) No information available

Upper flammability limit: No information available

Vapor pressure No information available

Specific Gravity 0.88

Solubility in other solvents No information available

Autoignition temperature No information available

Kinematic viscosity No information available

Explosive properties

Explosive properties

No information available

No information available

pH Not applicable
Boilting point/boiling range No information available

Evaporation rate No information available

Flammability Limit in Air

Lower flammability limit: No information available

Vapor density No information available

Water solubility Insoluble in water

Partition coefficient No information available

Decomposition temperature No information available

Dynamic viscosity No information available

viscosity 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 normal 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 Heat, flames and sparks

Hazardous Decomposition Products

Hazardous Decomposition Products None under normal processing

Incompatible materials

Incompatible materials Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information May be harmful if absorbed through the skin

Eye contact Moderately irritating to the eyes.

Skin contact Prolonged contact may cause redness and irritation. May cause sensitization by skin contact.

Inhalation Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Information on toxicological effects

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

Sensitization May cause sensitization by skin contact.
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 Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 11.419% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 5822 mg/kg

ATEmix (dermal) 2646 mg/kg

ATEmix (inhalation-dust/mist) 5.2 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

10.408% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

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

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

Not Regulated by any means of transportation

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 does not comply with EINECS/ELINCS

CHINA:

This product does not comply with China IECSC.

KECL:

This product does not comply with Korea KECL.

PICCS:

This product does not comply with Philippines PICCS.

AICS:

This product does not comply with Australia AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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

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 does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

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

Issue Date 19-Jul-2016

Revision Date 19-Jul-2016

Revision Note

Change in GHS classification of the product. SEE SECTION 2

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