

Regulation (EC) No 1907/2006 (REACH) and 29 CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name Universal KS-46 Leadscrew Grease

SDS Date November 30, 2018

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Grease for machine lead screws

Uses Advised Against: None known.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer: Universal Thread Grinding Company
 30 Chambers Street
 Fairfield, CT 06825
 +1 (203) 336-1849

EU Distributor:

1.4 Emergency Telephone Number

Emergency Spill Information +1 (203) 336-1849

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Physical	Health	Environmental
Not hazardous	Not Hazardous	Not Hazardous

2.2 Label Elements

Not hazardous in accordance with the EU CLP (1272/2008) and 29 CFR 1910.1200.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	CLP/GHS Classification (1272/2008)
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol	No CAS / 939-692-2	2.5-<10	Aquatic Chronic 3 H412
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 / 270-128-1	1-<2.5	Aquatic Chronic 3 H412

See Section 16 for full text of GHS Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid

Inhalation: Remove person to fresh air. If irritation occurs or symptoms develop, get medical attention.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention. Launder clothing before reuse.

Eye contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

4.2 Most important symptoms and effects, both acute and delayed: May cause mild eye and skin irritation. Ingestion may cause gastrointestinal distress with nausea and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not generally required.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide to extinguish a fire involving this product. So not use solid water stream as this may spread the fire.

5.2 Special Hazards Arising from the Substance or Mixture: Product is not flammable or combustible but may burn in a fire. Combustion products are hazardous and may include metal oxides and oxides of carbon, nitrogen, sulfur and phosphorus.

5.3 Advice for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing and equipment as described in Section 8. Use caution – surfaces will be very slippery.

6.2 Environmental Precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

6.3 Methods and Material for Containment and Cleaning Up: Contain and collect with an inert absorbent material. Place in an appropriate container for disposal. Clean spill area thoroughly.

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling: Avoid the generation of mists. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Keep away from open flames and hot surfaces.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a dry, cool, well-ventilated area. Keep in original containers. To maintain product quality, do not store at elevated temperatures or direct sunlight. Store away from oxidizing agents.

7.3 Specific end use(s):

Industrial uses: Grease for machine lead screws

Professional uses: Grease for machine lead screws

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	German Limits	UK Limits
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol	None Established	None Established	None Established	None Established
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	None Established	None Established	None Established	None Established

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposures levels.

Personal Protective Measures

Respiratory protection: None needed under normal use conditions. If exposure levels are excessive and irritation is experienced, an approved organic vapor/particulate respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with EN Standards and good Industrial Hygiene practice.

Skin protection: Impervious gloves recommended if needed to avoid prolonged skin contact. Select in accordance with standard EN374 and other applicable regulations.

Eye protection: Safety glasses conforming to EN166 recommended when applying to moving parts.

Other: None known.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance (physical state, color, etc.): Brown paste

Odor: Characteristic

Odor threshold: Not determined	pH: Not applicable
Melting point/freezing point: Not determined	Boiling Point: Not determined
Flash point: Not applicable	Evaporation rate (butyl acetate =1): Not determined
Flammability (solid, gas): Not applicable	VOC: Not determined
Flammable limits: LEL: None	UEL: None
Vapor pressure: <0.001hPa (<0.001 mmHg) @ 20°C	Vapor density: Not applicable
Relative density: 0.99	Solubility(ies): Insoluble in water
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: 120 cSt @ 40°C
Explosive Properties: Not applicable	Oxidizing Properties: Not oxidizing

9.2 Other Information: None available

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity: Not reactive under normal conditions of use.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Avoid oxidizing agents.

10.6 Hazardous Decomposition Products: Thermal decomposition may yield metal oxides and oxides of carbon, nitrogen, sulfur and phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Inhalation: Inhalation of mists from heated product may cause minor irritation of the mucous membranes and upper respiratory tract.

Ingestion: Ingestion may cause gastrointestinal distress with nausea and diarrhea.

Skin contact: May cause mild irritation and drying of the skin.

Eye contact: Contact may cause mild irritation with redness and tearing.

Chronic Effects: None known.

Sensitization: Components are not known to be sensitizers.

Skin corrosion/irritation: None of the components have been shown to cause skin irritation or corrosion.

Eye damage/ irritation: None of the components have been shown to cause eye irritation or damage.

Respiratory Irritation: No data available. Expected to cause only temporary irritation.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available. None of the components have been shown to cause skin sensitization.

Germ Cell Mutagenicity: No adverse effects are expected. Components are not germ cell mutagens.

Carcinogenicity: None of the components of this product are listed as carcinogens by IARC or the EU CLP.

Reproductive Toxicity: No adverse effects are expected. Components are not reproductive toxins.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: No data available.

Aspiration Toxicity: Does not meet the definition for aspiration toxicity.

Acute Toxicity Values: Product: LD50 oral rat >2000 mg/kg; LD50 dermal rat >2000 mg/kg.

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol: Oral rat LD50 >5000 mg/kg, Dermal rat LD50 >2000 mg/kg

Benzenamine, N phenyl-, reaction products with 2,4,4-trimethylpentene: Oral rat LD50 >5000 mg/kg, Dermal rat LD50 >2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol: 96 hr LC50

Pimephales promelas 1900 mg/L, 48 hr EC50 daphnia magna 41 mg/L, 72 hr EC50 Selenastrum capricornutum >100 mg/L

Benzenamine, N phenyl-, reaction products with 2,4,4-trimethylpentene: 96 hr LC50 danio rerio >100 mg/L, 48 hr EC50 daphnia magna 51 mg/L

12.2 Persistence and degradability: 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol is not readily biodegradable.

12.3 Bioaccumulative Potential: No data available. Not expected to be bioaccumulative.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: Not required.

12.6 Other Adverse Effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Dispose in accordance with all local, state and federal regulations. No specific disposal method is recommended.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Not Regulated			
Canadian TDG		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			
IATA/ICAO		Not Regulated			

14.6 Special Precautions for User: None known.

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

US Safety, health, and environmental regulations specific for the product in question.

CERCLA: This product is not subject to CERCLA release reporting. Many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA Hazard Category (311/312): Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
None

EPA TSCA Inventory: All the components of this product are listed on the TSCA inventory or exempt.

RoHS: Compliant

EU Regulations:

RoHS: Compliant

German WGK: 1

This SDS was prepared in accordance with EC No. 1907/2006 as amended. Classification under EC No. 1272/2008 as amended following the mixture rules.

15.2 Chemical safety assessment: Not required

SECTION 16: OTHER INFORMATION

CLP/GHS Classification and H Phrases for Reference (See Section 3)

H412 Harmful to aquatic life with long lasting effects

SDS Revision History: Combined US and REACH SDS.

Date of preparation: November 30, 2018

Date of previous revision: November 3, 2015

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Universal Thread Grinding Company shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.