

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Revision date: 10/8/2025 Supersedes: 6/1/2021

**KIMBALL  
MIDWEST**

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Hard-Kut Hi-Performance Metal-working Lubricant

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Cooling fluid,Lubricant,Metal Working Fluids  
Restrictions on use : None known

#### 1.4. Supplier's details

Kimball Midwest  
4800 Roberts Road  
Columbus, OH 43228  
USA  
T (614) 219-6100

#### 1.5. Emergency phone number

Emergency number : Chemtrec 800-424-9300

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin sensitization, Category 1 H317 May cause an allergic skin reaction.  
Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H317 - May cause an allergic skin reaction  
Precautionary statements (GHS US) : P261 - Avoid breathing vapors.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective clothing, protective gloves.  
P302+P352 - If on skin: Wash with plenty of water.  
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 2.3. Hazards associated with known or reasonably anticipated uses

None known

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Mica	CAS-No.: 12001-26-2	1 – 5
Calcium Carbonate	CAS-No.: 1317-65-3	1 – 5
Silicon Dioxide, Quartz	CAS-No.: 14808-60-7	< 1
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine	CAS-No.: 4719-04-4	< 1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Comments : The Crystalline Silica is inextricably bound in the chemical matrix of this product and no exposure can occur.

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : No first aid should be needed. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : May cause an allergic skin reaction.

Inhalation : None under normal use.

Skin : May cause an allergic skin reaction. May cause slight temporary irritation.

Eyes : No adverse effects expected under normal conditions of use. May cause minor eye irritation.

Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

Chronic symptoms : None known.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Not required. Treat symptomatically.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.  
Explosion hazard : Product is not explosive.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate area. Do not breathe vapors. Avoid contact with skin, eyes and clothing. Caution : this product can cause the floor to be slippery. Do not touch or walk on the spilled product. Keep unnecessary and unprotected personnel away from the spillage.

##### For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing vapors. Keep unnecessary and unprotected personnel away from the spillage.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Methods and materials for containment and cleaning up

For containment : Dike and contain spill.  
Methods for cleaning up : Take up liquid spill into absorbent material. Shovel into suitable and closed container for disposal. Thoroughly clean surrounding area. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapors. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store at room temperature. Store away from. Extremely high or low temperatures.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Incompatible materials : Strong oxidizers.  
Specific end uses : Metal Working Fluids.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

##### Calcium Carbonate (1317-65-3)

###### USA - OSHA - Occupational Exposure Limits

Local name	Calcium Carbonate (Limestone; Marble)
OSHA PEL (TWA)	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

##### Silicon Dioxide, Quartz (14808-60-7)

###### USA - ACGIH - Occupational Exposure Limits

Local name	Silica crystalline - quartz
ACGIH® TLV® TWA	0.025 mg/m <sup>3</sup> (R - Respirable particulate matter)
Remark (ACGIH®)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2024

###### USA - OSHA - Occupational Exposure Limits

Local name	Quartz (Respirable) (Silica: Crystalline)
OSHA PEL (TWA)	0.05 mg/m <sup>3</sup> respirable dust
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: $(250 / (\%SiO_2 + 5))$ for mppcf and $(10 \text{ mg/m}^3 / (\%SiO_2 + 2))$ for mg/m <sup>3</sup> . CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

##### Mica (12001-26-2)

###### USA - ACGIH - Occupational Exposure Limits

Local name	Mica
ACGIH® TLV® TWA	0.1 mg/m <sup>3</sup> (R - Respirable particulate matter)
Remark (ACGIH®)	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2024

###### USA - OSHA - Occupational Exposure Limits

Local name	Mica (Silicates (less than 1% crystalline silica))
OSHA PEL (TWA)	20 mppcf
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 8.3. Individual protection measures, such as personal protective equipment

#### Hand protection:

Wear impervious gloves.

#### Eye protection:

Avoid contact with eyes. Recommended. Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazard protection:

Not applicable.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Green. Paste. highly viscous.
Color	: Green
Odor	: Slight Almond
Odor threshold	: Not determined
pH	: 6 – 6.5
Melting point	: No data available
Freezing point	: 0 °C
Boiling point	: 107.2 °C
Flash point	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: Not determined
Relative vapor density at 20°C	: No data available
Relative density	: ≈ 1.12
Density	: 9.33 lb/gal
Solubility	: Dispersible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not determined
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Not oxidising.
Particle characteristics	: Particle characteristics : Not applicable

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Silicon Dioxide, Quartz (14808-60-7)

LD50 oral rat	> 22500 mg/kg
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#### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

LD50 oral rat	1000 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 Inhalation - Rat	0.371 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.371 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 6 – 6.5

#### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

pH	10.3 Temp.: 20 °C Concentration: 0,2 vol%
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Serious eye damage/irritation : Not classified  
pH: 6 – 6.5

#### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

pH	10.3 Temp.: 20 °C Concentration: 0,2 vol%
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Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified (The Crystalline Silica is inextricably bound in the chemical matrix of this product and no exposure can occur.).

#### Silicon Dioxide, Quartz (14808-60-7)

IARC group	1 - Carcinogenic to humans
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# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### Silicon Dioxide, Quartz (14808-60-7)

National Toxicity Program (NTP) Status	Known Human Carcinogens
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### Silicon Dioxide, Quartz (14808-60-7)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

LOAEL (oral, rat, 90 days)	285.2 – 338.6 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	> 250 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.3250 (Subchronic Dermal Toxicity 90 Days)
NOAEL (oral, rat, 90 days)	64.1 – 91 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 250 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.3250 (Subchronic Dermal Toxicity 90 Days)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified
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### Hard-Kut

Viscosity, kinematic	Not determined
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Symptoms/effects	: May cause an allergic skin reaction.
Inhalation	: None under normal use.
Skin	: May cause an allergic skin reaction. May cause slight temporary irritation.
Eyes	: No adverse effects expected under normal conditions of use. May cause minor eye irritation.
Ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Chronic symptoms	: None known.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Not applicable.
Hazardous to the aquatic environment, long-term (chronic)	: Not applicable.

### Silicon Dioxide, Quartz (14808-60-7)

LC50 - Fish [1]	> 10000 mg/l
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### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

LC50 - Fish [1]	21.7 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	34.1 mg/l daphnia
EC50 72h - Algae [1]	6.66 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	21 mg/l

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 12.2. Persistence and degradability

#### Hard-Kut

Persistence and degradability	Inherently biodegradable.
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#### Calcium Carbonate

Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
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#### Silicon Dioxide, Quartz (14808-60-7)

Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
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#### Mica (12001-26-2)

Persistence and degradability	Biodegradation is not applicable to inorganic compounds.
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#### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Silicon Dioxide, Quartz (14808-60-7)

Bioaccumulative potential	Not potentially bioaccumulable.
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#### 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol, 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine (4719-04-4)

Partition coefficient n-octanol/water (Log Kow)	-2
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: None known.
Fluorinated greenhouse gases	: No

## SECTION 13 Disposal considerations

Regional waste regulation	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated	Not applicable	Not regulated	Not regulated
<b>14.2. Proper Shipping Name</b>			
Not regulated	Not applicable	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not applicable	Not regulated	Not regulated



# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

DOT	TDG	IMDG	IATA
<b>14.4. Packing group</b>			
Not regulated	Not applicable	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
Not regulated	Not applicable	Not regulated	Not regulated
No supplementary information available			

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not regulated

#### TDG

Not applicable

#### IMDG

Not regulated

#### IATA

Not regulated

## SECTION 15 Regulatory information

### 15.1. Federal regulations

#### Hard-Kut

SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.
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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Mica (12001-26-2)

SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.
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### 15.2. International regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm. The Crystalline Silica is inextricably bound in the chemical matrix of this product and no exposure can occur.

# Hard-Kut

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Component	State or local regulations
Calcium Carbonate(1317-65-3)	U.S. - New Jersey - Right to Know Hazardous Substance List
Silicon Dioxide, Quartz(14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List
Mica(12001-26-2)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 10/8/2025

#### Full text of hazard classes and H-statements

H317	May cause an allergic skin reaction
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#### Indication of changes:

New version. Change in the mixture classification.

Safety Data Sheet (SDS), USA

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that the supplier believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of the supplier's control, the supplier makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.