

# SAFETY DATA SHEET

### 1. Identification

Product name	HYKOGEEN FS
Other means of identification	No data available.
Recommended use:	Metalworking fluid
Restrictions on use:	Industrial use only

#### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: Address:	Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, Illinois 60426
Telephone:	708-333-8900
Fax:	708-333-9180
Contact Person:	EHS Department
E-mail:	sds@fuchsus.com

Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

# 2. Hazard(s) identification

## **Hazard Classification**

#### Health Hazards

Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Carcinogenicity	Category 1A
Toxic to reproduction	Effects on or via
	lactation

#### **Label Elements**

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer. May cause harm to breast-fed children.
Precautionary Statements	
Prevention:	Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact during pregnancy and while nursing. Do not eat, drink or smoke when using this product.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.
Unknown toxicity - Health	
Acute toxicity, oral	12.76 %
Acute toxicity, dermal	22.37 %
Acute toxicity, inhalation	, vapor 88 %
Acute toxicity, inhalation or mist	, dust 99.83 %

# 3. Composition/information on ingredients

# Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Mineral oil	Confidential	20 - <50%
SDS_US		



Graphite	7782-42-5	10 - <20%
Stannous compound	Confidential	10 - <20%
Polyisobutylene	Confidential	10 - <20%
Phosphoric acid, 2-ethylhexyl ester	Confidential	5 - <10%
Stearate compound	Confidential	1 - <5%
Chlorinated paraffin	Confidential	1 - <5%
Crystalline silica	14808-60-7	0.1 - <1%

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.     Inhalation:   Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.     Skin Contact:   Call a physician or poison control center immediately. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water.     Eye contact:   Immediately flush with plenty of water for at least 15 minutes. If easy to do remove contact lenses. Call a physician or poison control center immediately.     Most important symptoms/effects, acute and delayed   Symptoms:     No data available.   No data available.     Indication of immediate medical attention and special treatment needed   Treatment:     Symptoms:   No unusual fire or explosion hazards noted.     Suitable (and unsuitable) extinguishing media   Water spray, fog, CO2, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.     Unsuitable extinguishing media   Do not use water jet as an extinguisher, as this will spread the fire.     Specific hazards arising from   Heat may cause the containers to explode. During fire, gases hazardous to	4. First-aid measures		
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the chemical: health may be formed.   SDS_US	the chemical:	Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.	



Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	No data available.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measures	6	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.	
7. Handling and storage		
Precautions for safe handling:	End-users should follow industry best practices for handling and using this product.	
	Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy and while nursing. Do not get in eyes, on skin, on clothing.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	



#### 8. Exposure controls/personal protection

#### **Exposure Limits Chemical name** Type **Exposure Limit Values** Source PEL US. OSHA Table Z-1 Limits for Air Mineral oil - Mist. 5 mg/m3 Contaminants (29 CFR 1910.1000) (02 2006) Graphite - Respirable fraction. TWA US. ACGIH Threshold Limit Values (03 2 mg/m3 2012) PEL US. OSHA Table Z-1 Limits for Air Graphite - Total dust. 15 mg/m3 Contaminants (29 CFR 1910.1000) (02 2006) Graphite - Respirable fraction. PEL 5 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) 15 millions of US. OSHA Table Z-3 (29 CFR 1910.1000) Graphite TWA particles per cubic (2000)foot of air Stannous compound - as Sn STEL US. ACGIH Threshold Limit Values (03 0.2 mg/m3 2012) Stannous compound - as Sn PEL 0.1 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) TWA US. ACGIH Threshold Limit Values (03 Stearate compound - Respirable 3 mg/m3 fraction. 2017) TWA US. ACGIH Threshold Limit Values (03 Stearate compound - Inhalable fraction. 10 mg/m3 2017) Crystalline silica - Respirable fraction. TWA 0.025 mg/m3 US. ACGIH Threshold Limit Values (03 2012) TWA 2.4 millions of US. OSHA Table Z-3 (29 CFR 1910.1000) Crystalline silica - Respirable. particles per cubic (2000)foot of air Crystalline silica - Respirable. TWA 0.1 mg/m3 US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)Crystalline silica - Respirable dust. PEL 0.05 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)

Protective Measures:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
Eye Protection:	Wear safety glasses with side shields (or goggles).
Skin and Body Protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after



handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

# 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	No data available.
Color:	Gray
Odor:	Mild petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	149 °C (300 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.03
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	> 21 mm2/s (40 °C)

# 10. Stability and reactivity

Reactivity:	Not reactive during normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.



Conditions to avoid:	Avoid heat or contamination.	
Incompatible Materials:	No data available.	
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of ex Ingestion:	<b>posure</b> Harmful if swallowed.	
Inhalation:	Harmful if inhaled.	
Skin Contact:	Causes severe skin burns. May cause an allergic skin reaction.	
Eye contact:	Causes serious eye damage.	
Symptoms related to the physica Ingestion:	II, chemical and toxicological characteristics No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effects		
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	Not classified for acute toxicity based on available data.	
Dermal Product:	Not classified for acute toxicity based on available data.	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irritatio Product:	on No data available.	
Respiratory or Skin Sensitization		



Product:	No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on	the Evaluation of Carcinogenic Risks to Humans:
Crystalline silica	Overall evaluation: 1. Carcinogenic to humans.
<b>US. National Toxicolog</b> Crystalline silica	<b>gy Program (NTP) Report on Carcinogens:</b> Known To Be Human Carcinogen.
US. OSHA Specifically	Regulated Substances (29 CFR 1910.1001-1050):
Crystalline silica	Cancer
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	May cause harm to breastfed babies.
Specific Target Organ Toxic Product:	ity - Single Exposure No data available.
Specific Target Organ Toxic Product:	ity - Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.
12. Ecological information	
General information:	This product has not been evaluated for ecological toxicity or other environmental effects.
13. Disposal consideration	S



Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport information

#### DOT

Not regulated.

#### IMDG

Not regulated.

#### ΙΑΤΑ

Not regulated.

#### 15. Regulatory information

#### **US Federal Regulations**

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica

kidney effects lung effects immune system effects Cancer

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Serious Eye Damage/Eye Irritation Skin Corrosion/Irritation Skin sensitizer Carcinogenicity

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.



16.Other information, including date of preparation or last revision		
Issue Date:	15.11.2017	
Revision Date:	15.11.2017	
Version #:	1.1	
Further Information:	No data available.	
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.	