

1. Identification			
Product name		HYKOGEEN AL FO 2931	
Other means of identification	ation	No data available.	
Recommended use:		Metalworking fluid	
Restrictions on use:		Industrial use only	
Manufacturer/Importer/Su	pplier/Distributor Informatio	n	
Manufacturer			
Company Name: Address:	Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, Illinois 60426		
Telephone: Fax:	708-333-8900 708-333-9180		
Contact Person: E-mail:	EHS Department sds@fuchsus.com		
Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)			
2. Hazard(s) identification	n		

Hazard Classification

Health Hazards

Skin sensitizer

Category 1

Label Elements

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

May cause an allergic skin reaction.

Precautionary Statements



Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.
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	16.19 %
Acute toxicity, dermal	19.79 %
Acute toxicity, inhalation, vapor	93.85 %
Acute toxicity, inhalation, dust or mist	96.63 %

3. Composition/information on ingredients

Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Mineral oil	Confidential	50 - 100%
Stannous compound	Confidential	5 - 10%
Graphite	7782-42-5	1 - 5%
Stearate compound	Confidential	1 - 5%
Sulfonate	Confidential	1 - 5%

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

4. First-aid measures	
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor//if you feel unwell. Do NOT induce vomiting.
Inhalation:	Move to fresh air. Call a POISON CENTER/doctor//if you feel unwell.
Skin Contact:	Remove contaminated/saturated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water.



Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.	
Most important symptoms/effects	s, acute and delayed	
Symptoms:	No data available.	
Indication of immediate medical a	ttention and special treatment needed	
Treatment:	Get medical attention as appropriate or if symptoms persist.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	
Suitable (and unsuitable) extingu	ishing media	
Suitable 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 the chemical:	Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.	
Special protective equipment and	d 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	S	
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 with sand or other inert absorbent. Stop the flow of material, if this is without risk.	
Environmental Precautions:	Avoid release to the environment. 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 Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.



8. Exposure controls/personal protection

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

Protective Measures:

Use personal protective equipment as required.

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. Contaminated work clothing should be laundered prior to re-use. Discard contaminated footwear that cannot be cleaned. Avoid contact with skin, eyes, and clothing.

9. Physical and chemical properties

Appearance

Appearance	
Physical state:	Liquid
Form:	No data available.
Color:	Gray
Odor:	Mild
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:	> 22 mm2/s (40 °C, Estimated)



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 exposure		
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.	
Inhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Prolonged skin contact may cause redness and irritation. May cause an allergic skin reaction.	
Eye contact:	Eye contact is possible and should be avoided.	
Symptoms related to the physical, chemical and toxicological characteristics Ingestion: 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:	ATEmix (): > 5000 mg/kg	

Dermal Product: ATEmix (): 2000 - 5000 mg/kg



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:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the I No carcinogenic components	Evaluation of Carcinogenic Risks to Humans: s identified
US. National Toxicology Provide the No carcinogenic components	rogram (NTP) Report on Carcinogens: s identified
US. OSHA Specifically Reg No carcinogenic components	Julated Substances (29 CFR 1910.1001-1050): s identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	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) None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate (Acute) Health Hazards

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:	18.10.2016	
Revision Date:	18.10.2016	
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.	