

1. Identification	
Product name	TITAN ANTIFREEZE
Other means of identification	No data available.
Recommended use:	Not available.
Restrictions on use:	Not known.
Manufacturer/Importer/Supplier/Distributor Information	

Manufacturer

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

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

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1
Specific Target Organ Toxicity - Repeated Exposure	Category 2

Label Elements

Hazard Symbol:



Signal Word:

Warning



Hazard Statement:	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statement	
Prevention:	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust or mists.
Response:	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. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Get medical advice/attention if you feel unwell. Specific treatment (see the specific response guidance provided herein). 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	0%
Acute toxicity, dermal	0%
Acute toxicity, inhalation,	vapor 100 %

3. Composition/information on ingredients

Acute toxicity, inhalation, dust

Hazardous Component(s):

or mist

CAS-No.	Concentration
107-21-1	60 - 100%
111-46-6	5 - 10%
2492-26-4	0.5 - 1.5%
Confidential	0.5 - 1.5%
	107-21-1 111-46-6 2492-26-4

100 %

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



4. First-aid measures	
Ingestion:	Call a Poison Center or doctor if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air. Call a Poison Center or 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.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effect	s, acute and delayed
Symptoms:	No data available.
Indication of immediate medical a	ttention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	uishing 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 pressurize and possibly rupture. During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment appropriate for industrial fires.
6 Accidental release measure	

6. Accidental release measures



Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not handle 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 an inert material, then place in a container for safe and proper disposal. 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 and protect against releases into the environment. Remediate as appropriate.
7. Handling and storage	
7. Handling and storage Precautions for safe handling:	Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. Do not taste or swallow. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing.

8. Exposure controls/personal protection

Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Ethylene glycol - Aerosol.	Ceiling	100 mg/m3	US. ACGIH Threshold Limit Values (03 2012)
Inorganic borate - Inhalable fraction.	STEL	6 mg/m3	US. ACGIH Threshold Limit Values (03 2012)
Inorganic borate - Inhalable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (03 2012)

Protective Measures:	Provide easy access to water supply and eye wash facilities. Good general ventilation should be provided. 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
MSDS_US - R80064900003	



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. Contaminated work clothing should not be allowed out of the workplace. Discard contaminated footwear that cannot be cleaned. Avoid contact with skin, eyes, and clothing.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	No data available.
Color:	Green
Odor:	Characteristic
Odor threshold:	No data available.
pH:	10.5
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	> 116 °C (241 °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:	1.1
Solubility(ies)	
Solubility in water:	Soluble
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:	No data available.

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 o Ingestion:	of exposure Harmful if swallowed.	
Inhalation:	May cause irritation to the respiratory system.	
Skin Contact:	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact:	Causes serious eye irritation.	
Symptoms related to the phy- Ingestion:	sical, 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:	ATEmix (): 300 - 2000 mg/kg	
Dermal Product:	ATEmix (): 2000 - 5000 mg/kg	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	



- Skin Corrosion/Irritation Product: No data available.
- Serious Eye Damage/Eye Irritation Product: 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: No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components 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 - Single ExposureProduct:No data available.				
Specific Target Organ Toxicity - Repeated Exposure Product: No data available.				
Aspiration Hazard Product:	No data available.			
Other effects:	Components may cause a risk to the following : Kidneys.			

12.	Eco	logical	l inf	formatior)
-----	-----	---------	-------	-----------	---

```
General information:
```

This product has not been evaluated for ecological toxicity or other environmental effects.



13. Disposal considerations **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 Delayed (Chronic) Health Hazard

SARA 313 (TRI Reporting)

	<u>Reporting</u>
	threshold f
Chemical Identity	other users
Ethylene glycol	10000 lbs

Reporting threshold for manufacturing and old for users processing 25000 lbs.

US State Regulations

US. California Proposition 65

No component is regulated by CA Prop 65.



16.Other information, including date of preparation or last revision				
Issue Date:	21.05.2015			
Revision Date:	21.05.2015			
Version #:	1.0			
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.			