



SAFETY DATA SHEET

FOODSAFE® ULTRA-GARD FG-220

ISO 220 H1 FOODSAFE SYNTHETIC HIGH TEMPERATURE OVEN CHAIN LUBRICANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FOODSAFE® ULTRA-GARD FG-220
Product Code:	FSUG FG-220-005; FSUG FG-220-055
Synonym(s):	Polyol Ester with Additives
Supplier contact information:	PETROCHEM, INC. 333 North Randall Road St. Charles, IL 60174 Tel: 630-513-6360 Fax: 630-513-8324 Email: info@petrochem1.com
Emergency Contact Information:	CHEMTREC (800)-424-9300 International (703) 527-3887
Chemical Family / Use:	Food Grade High Temperature Oven Chain Lubricant
Date Prepared:	05/12/2020
Revision Date/Version:	06/01/2025 Rev 5

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to 29 CFR 1910.1200/ HazCom 2012 (GHS-US)

Skin sensitization, Category 1B H317: May cause an allergic skin reaction

2.2. Label Elements:

Labeling according to 29 CFR 1910.1200/ HazCom 2012 (GHS-US)

Hazard pictograms:



Signal Word:

WARNING!

Hazard statements:

H317: May cause an allergic skin reaction
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves.

Precautionary statements:

P302+352: IF ON SKIN: Wash with plenty of soap and water.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse.
P501: Dispose of contents/container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable product is a mixture

3.2 Mixture

Chemical nature: Polyol ester with additives

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Chemical Name	CAS No. (EC No.)	Concentration
Food Grade Polyol Ester	67762-52-1	> 96%
Proprietary Additive Blend	Proprietary	< 4.0%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Ingestion: If swallowed, observe victim for 24 hours; seek medical attention if indicated. If vomiting occurs, keep head lower than hips to prevent aspiration.

Skin: For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Get medical attention if irritation occurs.

Inhalation: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patients.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Inhalation: Mists may cause irritation of the respiratory tract.

Skin: May cause an allergic skin reaction.

Eyes: May cause eye irritation.

Ingestion: May cause gastrointestinal distress.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Note: Flash Point & Method: >318 °C (COC) 605°F

5.1 Extinguishing media

Suitable extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Unsuitable extinguishing media: Water jet.

5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. Under fire conditions, product may undergo thermal decomposition and emit toxic fumes of CO_x, NO_x, and PO_x.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus and protective clothing should be used. Water may be used to cool containers to prevent pressure buildup and possible rupture when exposed to extreme heat. If possible, water contaminated by this material should be contained and prevented from being discharged to any waterway, sewer, or drain to avoid environmental contamination.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective gloves, eye protection, and face protection. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers, and waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Take up with inert absorbent material (e.g. vermiculite, general purpose binder). Shovel or sweep up product and place into an approved container for proper disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Dispose of material in accordance with local, state and federal regulations.

6.4 Reference to other sections

See section 13 for any additional waste treatment or disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear protective gloves, eye protection, and face protection. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Wash contaminated clothing and shoes before reuse.

7.2 Precautions to be taken in handling and storage:

Keep container closed when not in use. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded with material. For food, plant, and other industrial use only. Do not add directly to food.

7.3. Specific end uses

Apart from uses mentioned in Section 1.2, no other uses are specified.

	HMIS	KEY 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Health	1	
Flammability	1	
Reactivity	0	
Other	B	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	CAS	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL-STEL	Units
Food Grade Polyol Esters	67762-52-1	None	None	None	None	Ppm
Additives	Proprietary Mixture	None	None	None	None	Ppm

8.2 Exposure Controls

Engineering Measures:

Safety measures and appropriate working conditions should be given priority, with use of personal protective equipment a secondary measure. Use adequate ventilation to reduce the exposure of mists or vapors. Facility should be equipped with an eyewash station and safety shower.

Hygiene Measures:

Avoid contact with eyes or skin. Wash hands thoroughly after use and before eating, drinking or bathroom use.

Personal Protective Equipment (PPE):

Hand Protection:

Wear gloves recommended by glove supplier as impervious to materials in Section 3.

Eye Protection:

Wear protective goggles or safety glasses with side shields and/or full face shield.

Skin Protection:

Wear protective clothing.

Respiratory Protection:

If ventilation is limited or use may generate aerosols or mists, use full-face respirator with multi- purpose cartridges.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of physical and chemical properties

Physical state	Liquid
Appearance	Oil
Odor	Mild
Color	Clear, Yellow-Amber
Odor threshold	No information available

Property	Values
pH	No information available
Melting point/freezing point	-13F (-25° C) (Pour Point)
Boiling point	No information available

Property	Values
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity cSt @ 40°C	220

Flash point	>318°C (COC) 605°F
Evaporation rate	< 0.01
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Specific Gravity	0.97 @ 25C
Water solubility (20°C)	Insoluble in water
Solubility in other solvents	No information available

Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Partition coefficient: n-octanol/water	No information available
Other information	
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	N/A
Density	8.12 @ 25°C
Bulk density	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

None known.

10.2 Chemical stability

Product is stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

Will not occur under ordinary conditions of use and storage.

10.4 Conditions to avoid

Contact with incompatible materials, moisture, and extreme heat.

10.5 Incompatible materials

Strong oxidizers, strong acids.

10.6 Hazardous decomposition products

Thermal decomposition may produce toxic fumes of CO_x, NO_x, and PO_x.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect

Acute oral Toxicity LD50:

LD50 greater than 5,000 mg/kg body weight (RATS) (2)

Skin Irritation:

Non-irritating

Eye Contact:

Based on the review of component data available in public domain, studies indicate the components are minimally irritating.

Sensitization:

May cause an allergic skin reaction.

11.2 Further Information

This material is not listed as a carcinogen by IARC, ACGIH, NTP, or OSHA. No data is available regarding the mutagenicity or teratogenicity of this material in humans, nor is there available data that indicates that it causes adverse development or fertility effects in humans. Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute and Chronic Aquatic Toxicity: LC50 (96h) – Fish: > WSLEC50 (48h) – Daphnia magna: > WSL

12.2 Persistence and Degradability

Not readily biodegradable.

12.3 Bioaccumulation Potential

Not expected to bioaccumulate.

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

No data available

12.6 Other Adverse Effects

Do not allow material to run into surface waters, wastewater, or soil.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Method:

As local regulations may vary; all waste must be disposed/recycled/ reclaimed in accordance with federal, state, and local environmental control regulations.

Hazardous waste:

This material, as sold, is not considered a hazardous waste under RCRA 40 CFR 261

14. TRANSPORT REGULATIONS

Department of Transportation Information Land Transport (DOT, ADR/RID)

Shipping Name:	Non-regulated
Hazard Class:	Non-regulated (Not Classified as dangerous in transport)
Label(s):	None
UN/NA Number:	None
Placards:	None

Air and International Transportation Classification; Marine Transport (IMDG)

IATA, International Air Transportation:	Non-regulated (Not Classified as dangerous in transport)
IMDG, International Maritime Dangerous Goods:	Non-regulated (Not Classified as dangerous in transport)

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

All of the components in the product are on the following Inventory lists:

Chemical Inventory List

United States (TSCA)	Complies
European Union (EINECS/ELINCS/NLP)	Complies
Canada (DSL/NDL)	Complies
Australia (AICS)	Complies
China (IECSC)	Complies
Korean (ECL)	Complies
Japan (MITI)	Not Available
Philippines (PICCS)	Complies
New Zealand (NZIoc)	Complies

Federal Regulations:

SARA Section 302/304 (TPQ/RQ):	No components found
SARA (311, 312) Hazard Class:	Skin Sensitizer
SARA (313) Chemicals:	No components listed
CERCLA Hazardous Substance:	No components found
CERCLA Reportable Quantity:	No components found
CAA 122(b) HAPS	No components found
California Proposition 65:	Methanol (67-56-1) (Trace)
State RTK/HSL Information	No components found

EXPORT

SCHDLE B/HTSUS: (Tariff Classification #):	3403990000
ECCN (Export Commodity Control Number):	EAR99
WHMIS Hazard Class:	Not Available
WHMIS Trade Secret:	All components listed on EINECS

EC Labeling Requirements

EC Required Symbol(s):	None Required
EC Safety Phrases:	Not Available
EC Risk Phrases:	All Available

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out on this product.

16. OTHER INFORMATION

Issue Date: 05/11/2020

Revision Date: 01-June-2025

Version: 5

Revision Note: Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008

General Disclaimer

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