

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: TIMKEN GR220

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Lubricating grease

Recommended restrictions: Industrial use only

Manufacturer/Importer/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 sds@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)

Acute toxicity (Dermal)

Skin sensitizer

Category 5

Category 5

Category 1

Category 2

Unknown toxicity - Health

Acute toxicity, oral 3.54 %
Acute toxicity, dermal 3.55 %
Acute toxicity, inhalation, vapor 99.8 %
Acute toxicity, inhalation, dust 98.69 %

or mist

Label Elements

Hazard Symbol:

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Signal Word: Warning

Hazard Statement: H303+H313: May be harmful if swallowed or in contact with skin.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response: P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P321: Specific treatment (see supplemental first aid instructions on this

label).

P362+P364: Take off contaminated clothing and wash it before reuse. P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	CAS number	Content in percent (%)*
1-Decene, homopolymer, hydrogenated	68037-01-4	60 - 100%
N.N"-(Methylenedi-4, 1- phenylene)bis(N'- cyclohexylurea)	58890-25-8	7 - 13%
Alkyl polysulfide	68511-50-2	1 - 5%
Magnesium silicate	14807-96-6	1 - 5%
4,4'-Distearylureidodiphenyl	43136-14-7	1 - 5%
Molybdenum compound	68412-26-0	0.5 - 5%
Molybdenum compound (insoluble)	72030-25-2	0.5 - 5%
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	0.1 - 1%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	0.1 - 1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact: Remove contaminated 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.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel

unwell. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing 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 precautions for fire-fighters

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

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.

For non-emergency personnel: No data available.

For emergency responders: No data available.

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: 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 handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes,

skin, and clothing. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity Type Exposure Limit Values		Exposure Limit Values	Source	
Magnesium silicate - Respirable fraction.	VLE-CT	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound - as Mo	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (03 2000)	
	VLE-CT	10 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (03 2000)	
Molybdenum compound - Respirable fraction as Mo	VLE-PPT	3 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound - Inhalable fraction as Mo	VLE-PPT	10 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound - Respirable fraction as Mo	VLE-PPT	0.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound (insoluble) - Respirable fraction as Mo	VLE-PPT	0.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound (insoluble) - Inhalable fraction as Mo	VLE-PPT	10 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Molybdenum compound (insoluble) - Respirable fraction as Mo	VLE-PPT	3 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	
Distillates (petroleum), hydrotreated heavy naphthenic	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)	

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

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Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

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: solid
Form: Semisolid
Color: Light tan
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: 200 °C

Evaporation rate:No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

No data available.

Relative density: 0.95

Solubility(ies)

Solubility in water: Insoluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

No data available.

10. Stability and reactivity

Reactivity: Not reactive during normal use.

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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

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May cause an allergic skin reaction.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

Dermal

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

Inhalation

Product: No data available.

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Specified substance(s):

Molybdenum compound LC 50 (Rat): 34.4 mg/l

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

LC 50 (Rat): > 5.8 mg/l

Distillates (petroleum), hydrotreated heavy

LC 50 (Rat): > 5,000 mg/l LC 50: > 5,000 mg/l

naphthenic

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

1-Decene, in vivo (Rabbit): Not irritant, 24 - 72 h Read-across based on grouping of

substances (category approach), Weight of Evidence study homopolymer,

hydrogenated in vivo (Rabbit): Not classified as an Irritant, 24 - 72 h Read-across based on grouping of substances (category approach), Weight of Evidence study

N.N"-(Methylenedi-4, 1in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

phenylene)bis(N'cvclohexvlurea) Benzenamine, N-

in vivo (Rabbit): Slightly irritating, 1 - 168 h Experimental result, Key study

phenyl-, reaction products with 2,4,4trimethylpentene

Distillates (petroleum), hydrotreated heavy

naphthenic

in vivo (Rabbit): Not irritant, 72 h Experimental result, Supporting study in vivo (Rabbit): Category 2, 24 - 72 h Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

1-Decene, Rabbit, 48 h: Not irritant EU homopolymer, Rabbit, 48 h: Not irritant EU Rabbit, 72 h: Not irritant EU hydrogenated

Rabbit, 24 h: Not irritant EU Rabbit, 24 h: Not irritant EU Rabbit, 72 h: Not irritant EU Rabbit, 24 - 72 h: Not irritant EU Rabbit, 72 h: Not irritant EU

N.N"-(Methylenedi-4, 1-

phenylene)bis(N'cyclohexylurea)

Bovine, eye: Slightly irritating OECD GHS

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Benzenamine, Nphenyl-, reaction
products with 2,4,4trimethylpentene

Rabbit, 1 - 168 h: Not irritant EU
Rabbit, 1 - 168 h: Not irritant EU
Rabbit, 1 - 168 h: Not irritant EU

Distillates (petroleum), hydrotreated heavy naphthenic Rabbit, 48 h: Not irritant EU Rabbit, 24 h: Not irritant EU Rabbit, 48 h: Not irritant EU Rabbit, 24 h: Not irritant EU

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: This product contains a low concentration of hydrated magnesium silicate

(Talc). Under the International Agency for Research on Cancer (IARC), Talc in powder form is classified as Group 1: Carcinogenic to Humans. This is based on exposure through inhalation and perineal dusting with talc-based body powders. For this product, Talc is bound in the product's matrix

(grease). As a consequence, exposure to airborne Talc particles/dusts is not

anticipated.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

1-Decene, homopolymer,

hydrogenated

LC 50 (Rainbow Trout, 96 h): > 1,000 mg/l

Distillates (petroleum), hydrotreated heavy

naphthenic

LC 50 (Fish, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

1-Decene, homopolymer,

hydrogenated

EC50 (Daphnia, 48 h): 190 mg/l

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

EC50 (Water Flea, 48 h): 51 mg/l

Distillates (petroleum), hydrotreated heavy

naphthenic

EC50 (Shrimp (Callianassa australiensis), 48 h): > 100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

EC50 (Water Flea, 48 d): > 51 mg/l

Distillates (petroleum), hydrotreated heavy naphthenic EC50 (Daphnia, 14 d): 0.058 mg/l

heavy EC50 (21 d): 0.054 mg/l EC50 (2 d): > 10,000 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Benzenamine, N-phenyl-, EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

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reaction products with 2,4,4-trimethylpentene

Distillates (petroleum), hydrotreated heavy naphthenic

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

No data available. **Product:**

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

1-Decene, homopolymer, No data available.

hydrogenated

N.N"-(Methylenedi-4, 1-

phenylene)bis(N'-

cyclohexylurea)

Alkyl polysulfide No data available. Magnesium silicate No data available. 4,4'-Distearylureidodiphenyl No data available. Molybdenum compound No data available. Molybdenum compound No data available.

(insoluble)

Benzenamine, N-phenyl-,

reaction products with 2,4,4-trimethylpentene

Distillates (petroleum),

hydrotreated heavy naphthenic

No data available.

No data available.

No data available.

Other adverse effects: No data available.

13. Disposal considerations

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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.

IATA

Not Regulated.

IMDG

Not Regulated.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not applicable

Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances

Not applicable

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

none

Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

Not applicable

Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)

Not applicable

Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)
Not applicable

16.Other information, including date of preparation or last revision

Issue Date: 07/12/2024

Revision Information: 06/06/2024: ARGHS_MX

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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.

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