

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier TIMKEN GR220

Other means of identification No data available.

Recommended use: Lubricating grease

Restrictions on use: 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 identification

# **Hazard Classification**

## **Health Hazards**

Skin sensitizer Category 1
Reproductive toxicity 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

% of the mixture consists of an ingredient or ingredients of unknown acute toxicity

# **Label Elements**

# **Hazard Symbol:**

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Signal Word: Warning

**Hazard Statement:** May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing protection.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash

occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

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

local, regional, national and international regulations.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

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#### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
1-Decene, homopolymer, hydrogenated	Polyalphaolefins,	68037-01-4	60 - 80%
N.N"-(Methylenedi-4, 1- phenylene)bis(N'- cyclohexylurea)		58890-25-8	5 - 10%
Alkyl polysulfide	Alkyl polysulfide,	68511-50-2	1 - 5%
Magnesium silicate	Magnesium silicate,	14807-96-6	1 - 5%
4,4'-Distearylureidodiphenyl		43136-14-7	0.5 - 1.5%
Molybdenum compound	Molybdenum compound,	68412-26-0	0.1 - 1%
Molybdenum compound (insoluble)	Molybdenum compound (insoluble),	72030-25-2	0.1 - 1%
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene		68411-46-1	0.1 - 1%
Distillates (petroleum), Mineral oil, hydrotreated heavy naphthenic		64742-52-5	0.1 - 1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 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 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, 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 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 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.

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.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source

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TWA 8 HR ACL	2 mg/m3	amended (07 2009)  Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological
8 HR ACL		Substances (Workers Compensation Board); as amended (09 2011)
	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
TWA	2 Fibers/cc	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
TWA	2 mg/m3	US. ACGIH Threshold Limit Values, as
TWA	0.5 mg/m3	amended (03 2012)  Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
TWA	3 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
TWA	0.5 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (09 2011)
TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
8 HR ACL	0.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
15 MIN ACL	1.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (11 2011)
TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
TWA	0.5 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2020)
TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
	TWA  TWA  TWA  TWA  TWA  TWA  TWA  TWA	TWA 2 mg/m3  TWA 2 mg/m3  TWA 0.5 mg/m3  TWA 10 mg/m3  TWA 0.5 mg/m3  TWA 0.5 mg/m3  TWA 0.5 mg/m3  TWA 10 mg/m3  TWA 10 mg/m3  TWA 10 mg/m3  TWA 10 mg/m3  TWA 15 mg/m3  ACL 15 MIN ACL 15 mg/m3  TWA 5 mg/m3  TWA 3 mg/m3  TWA 5 mg/m3  TWA 0.5 mg/m3

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Molybdenum compound - Respirable dust as Mo	TWA	3 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
	TWA	0.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Molybdenum compound - Inhalable dust as Mo	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Molybdenum compound - Inhalable - as Mo	TWA	10 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Molybdenum compound - Respirable as Mo	TWA	3 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Molybdenum compound - Respirable fraction as Mo	TWA	0.5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Molybdenum compound - Inhalable fraction as Mo	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
Molybdenum compound - Respirable fraction as Mo	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)
	TWA	0.5 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Molybdenum compound (insoluble) - Total - as Mo	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Molybdenum compound (insoluble) - Respirable as Mo	TWA	3 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Molybdenum compound (insoluble) - Inhalable	TWA	10 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (09 2011)
Molybdenum compound (insoluble) - Respirable.	TWA	3 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (09 2011)
Molybdenum compound (insoluble) - Inhalable fraction as Mo	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Molybdenum compound (insoluble) - Inhalable fraction as Mo	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Molybdenum compound (insoluble) - as Mo	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (11 2011)
Molybdenum compound (insoluble) - Respirable as Mo	TWA	0.5 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (05 2013)
Molybdenum compound (insoluble) - Respirable fraction as Mo	TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Molybdenum compound (insoluble) - Inhalable fraction as Mo	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Molybdenum compound (insoluble) - Respirable dust. - as Mo	TWA	0.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
	TWA	3 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)

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Molybdenum compound (insoluble) - Inhalable dust as Mo	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Molybdenum compound (insoluble) - Inhalable - as Mo	TWA	10 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Molybdenum compound (insoluble) - Respirable as Mo	TWA	3 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022)
Molybdenum compound (insoluble) - Respirable fraction as Mo	TWA	0.5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Molybdenum compound (insoluble) - Inhalable fraction as Mo	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Molybdenum compound (insoluble) - Respirable fraction as Mo	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (05 2013)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable dusts and mists.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (04 2022)

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.

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

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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:

No data available.

Vapor density:No data available.Density:No data available.

Relative density: 0.95

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: 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 of exposure

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**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.

Delayed and immediate effects, including chronic effects from short- and long-term exposure

**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:** 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

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#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**ACGIH Carcinogen List:** 

Molybdenum compound

**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.

# 12. Ecological information

#### **Ecotoxicity:**

Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

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**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**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.

Other adverse effects: No data available.

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

**TDG** 

Not Regulated.

**IMDG** 

Not Regulated.

IATA

Not Regulated.

# 15. Regulatory information

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**Canada Federal Regulations** 

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

**National Pollutant Release Inventory (NPRI)** 

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional

**Reporting Requirements** 

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

**Greenhouse Gases** 

Not Regulated

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

**Issue Date:** 07/12/2024

**Revision Date:** 06/06/2024

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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