

## SAFETY DATA SHEET

### 1. Identification

**Product name** TIMKEN GR220

**Other means of identification** No data available.

**Recommended use:** Lubricating grease

**Restrictions on use:** Industrial use only

### Manufacturer/Importer/Supplier/Distributor Information

#### Supplier

Company Name: The Timken Corporation  
Address: 4500 Mt. Pleasant St. NW  
North Canton, OH 44720 U.S.A.  
Telephone: 234.262.3000

**Emergency telephone number:** INFOTRAC US & CANADA – 800.535.5053 Outside U.S. & Canada  
+1 352.323.3500

### 2. Hazard(s) identification

#### Hazard Classification

##### Health Hazards

Skin sensitizer Category 1  
Toxic to reproduction Category 2

#### Label Elements

##### Hazard Symbol:



**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. Use personal protective equipment as required.
- Response:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). 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.

**Unknown toxicity - Health**

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

### 3. Composition/information on ingredients

**Hazardous Component(s):**

Chemical name	CAS-No.	Concentration
Urea, N,N''-(methylenedi-4,1-phenylene)bis[N'-cyclohexyl-	58890-25-8	5 - <10%
4,4'-Distearylureidodiphenyl	43136-14-7	1 - <5%
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamo-dithioato)di-#-oxodioxodi-, sulfurized	68412-26-0	0.1 - <1%
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	0.1 - <1%

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 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.

**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.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, 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

### Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - Respirable fraction. - as Mo	TWA	0.5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2012)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - Inhalable fraction. - as Mo	TWA	10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2012)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - Respirable fraction. - as Mo	TWA	3 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2012)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - as Mo	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - Total dust. - as Mo	PEL	15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - Respirable fraction. - as Mo	TWA	0.5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (01 2021)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - as Mo	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Molybdenum dibutyldithiocarbamate, Molybdenum, bis(dibutylcarbamodithioato)di-#-oxodioxodi-, sulfurized - as Mo	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)

**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).

<b>Skin and Body Protection:</b>	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
<b>Hygiene measures:</b>	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

<b>Physical state:</b>	solid
<b>Form:</b>	Semisolid
<b>Color:</b>	Light tan
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	200 °C (392 °F)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.95
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	Not reactive during normal use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.

<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.
<b>Inhalation:</b>	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
<b>Skin Contact:</b>	May cause an allergic skin reaction.
<b>Eye contact:</b>	Eye contact is possible and should be avoided.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	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.

**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:

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

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

No carcinogenic components identified

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

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.

## 12. Ecological information

### 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.

**IATA**

Not Regulated.

**15. Regulatory information****US Federal Regulations****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**

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  
Respiratory or Skin Sensitization  
Reproductive toxicity

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

This product can expose you to chemicals including Magnesium silicate Crystalline silica which is [are] known to the State of California to cause cancer.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

**Issue Date:**

12.07.2024



# TIMKEN

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**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.