

# SAFETY DATA SHEET

# 1. Identification of the hazardous chemical and of the supplier

Product identifier: TIMKEN GR 180

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

#### **Distributor**

Company Name: Address:

The Timken Corporation 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**

Acute toxicity (Dermal)

Skin Corrosion/Irritation

Skin sensitizer

Category 1

Toxic to reproduction

Category 2

**Unknown toxicity - Health** 

Acute toxicity, oral 21.43 %
Acute toxicity, dermal 14.62 %
Acute toxicity, inhalation, vapor 42 %
Acute toxicity, inhalation, dust 41.8 %

or mist

## **Label Elements**

#### **Hazard Symbol:**



Signal Word: Danger

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**Hazard Statement:** H313: May be harmful in contact with skin.

H316: Causes mild skin irritation.

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P312: Call a POISON CENTER or doctor/ physician if you feel unwell. 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

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Residual oils	Trade Secret	40 - 70%
Polymer	Trade Secret	7 - 13%
Mineral oil	Trade Secret	7 - 13%
Dodecylbenzene calcium sulfonate	Trade Secret	7 - 13%
Calcium carbonate	471-34-1	3 - 7%
Calcium 12- hydroxyoctadecanoate	Trade Secret	3 - 7%
Naphthenic acids, zinc salts	Trade Secret	1 - 5%
Magnesium silicate	14807-96-6	1 - 5%
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1	0.1 - 1%

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

**Trade secret information:** A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

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## 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.

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.

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

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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. 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
Residual oils	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Mineral oil	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
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)

Appropriate Engineering Controls

No data available.

Controls

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** 

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**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: Grease
Color: Amber
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: 250 °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.

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

Relative density: 0.95

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
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:** None under normal conditions. 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.

**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 (): > 5000 mg/kg

**Dermal** 

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

Inhalation

**Product:** No data available.

Specified substance(s):

Residual oils LC 50 (Rat): < 5.7 mg/l

LC 50: 5.7 mg/l

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Mineral oil LC 50 (Rat): > 5.53 mg/l

LC 50 (Rat): 22 mg/l

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

LC 50 (Rat): > 5.8 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Residual oils in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

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

Mineral oil in vivo (Rabbit): Not irritant, 72 h Experimental result, Key study

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

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

Calcium 12- In vi hydroxyoctadecanoate Rea

In vitro (Human, in vitro reconstituted epidermis model): Non-corrosive, 2 d Read-across from supporting substance (structural analogue or surrogate),

Key study

in vivo (Rabbit): Not irritant, 4 - 72 h Experimental result, Supporting study In vitro (Human, in vitro reconstituted epidermis model): Not irritant, 6 d Read-across from supporting substance (structural analogue or surrogate),

Key study

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

Calcium carbonate

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

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Residual oils Rabbit, 24 hrs: Not irritating EU

Mineral oil Rabbit, 24 hrs: Not irritating EU

Rabbit, 48 hrs: Not irritating EU

Calcium carbonate Rabbit, 24 - 72 hrs: Not irritating EU

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Benzenamine, Nphenyl-, reaction products with 2,4,4trimethylpentene Rabbit, 1 - 168 hrs: Not irritating EU

## Respiratory or Skin Sensitization

**Product:** May cause an allergic skin reaction.

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:

Magnesium silicate Overall evaluation: 1. Carcinogenic to humans.

**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.

Specified substance(s):

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Calcium carbonate LC 50 (Fish): > 100 mg/l

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Mineral oil EC50 (Daphnia): > 1,000 mg/l

Calcium carbonate EC50 (Daphnia): > 100 mg/l

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

EC50 (Water Flea, 48 h): 51 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

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Specified substance(s):

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

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

## 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.

Known or predicted distribution to environmental compartments

Residual oils

Polymer

No data available.

No data available.

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Mineral oil

No data available.

Dodecylbenzene calcium

sulfonate

No data available.

Calcium carbonate

No data available. No data available.

Calcium 12-

hydroxyoctadecanoate

Naphthenic acids, zinc salts

Magnesium silicate Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene No data available.

No data available. 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

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)

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## 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: 04/03/2023

**Revision Information:** No data available.

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.