TIMKEN

SAFETY DATA SHEET

1. Identification of the product

GHS product identifier Timken GR220

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Lubricating grease.

Recommended restrictions For industrial use only. Uses other than the recommended use.

Suppliers details

Company name The Timken Company

Address 4500 Mount Pleasant Street NW

North Canton, OH 44720

United States

Telephone (234) 262-3000
E-mail Not available.
Contact person INFOTRAC
Emergency phone number 1-800-535-5053

2. Hazard identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Reproductive toxicity (fertility) Category 2

Environmental hazards Not classified.

GHS label elements, including precautionary statements



Signal word Warning

Hazard statement

H361 Suspected of damaging fertility.

Precautionary statement

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

which do not None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical identity	Common name(s), synonym(s)	CAS number and other unique identifiers	Concentration
1-Decene, homopolymer, hydrogenated		68037-01-4	50 - 90
3,3'-dicyclohexyl-1,1'-methylen ebis (4,1-phenylene)diurea		58890-25-8	5 - 10
1-Propene, 2-methyl- sulfurized		68511-50-2	1 - 5
3,3'-Dioctadecyl -1,1'-methylenebis (4,1-phenylene) diurea		43136-14-7	1 - 5
Talc		14807-96-6	1 - 5
Urea, N-(4-((4-(((cyclohexylamino)car bonyl)amino)phenyl)methyl)ph enyl)-N'-octadecyl-		154099-21-5	1 - 5
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene		68411-46-1	0.1 - 1
Molybdenum, bis(dibutylcarbamodithioato)di- μ-oxodioxodi-, sulfurized		68412-26-0	0.1 - 1

Composition comments

All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Description of necessary first-aid measures

Inhalation Move to fresh air. If not breathing, give artificial respiration. Call a physician if symptoms develop

or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

medical attention and special treatment needed

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

Direct contact with eyes may cause temporary irritation. Suspected of damaging fertility.

(show the label where possible). Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective actions for

firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. General fire hazards

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be

advised if significant spillages cannot be contained. For personal protection, see section 8 of the

SDS

Environmental precautions

Methods and materials for containment and cleaning up

Avoid discharge into drains, water courses or onto the ground.

The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste

disposal, see section 13 of the SDS.

7. Handling and storage

Precautions to ensure safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear

appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see

Section 10 of the SDS).

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Costa Rica. OELs (Regulation for the Registration of Hazardous Products, Executive Decree No. 28113S, as amended by

Executive Decree No. 30718, Oct 2, 2002) updated with ACGIH

 Components
 Type
 Value
 Form

 Talc (CAS 14807-96-6)
 TWA
 2 mg/m3
 Respirable fraction.

Nicaragua. OELs (General Law of Workplace Hygiene and Safety. Law No. 618, published in Official Gazette No. 133, July

13, 2007) as updated with ACGIH), as updated through ACGIH

ComponentsTypeValueFormTalc (CAS 14807-96-6)TWA2 mg/m3Respirable fraction.

US. ACGIH Threshold Limit Values (TLV)

ComponentsTypeValueFormTalc (CAS 14807-96-6)TWA2 mg/m3Respirable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Control banding approach

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

Not established.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

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Physical state Solid.
Form Semi-solid.
Color Light tan.
Odor Mild.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point 392 °F (200 °C) Evaporation rate Not available.

Flammability (solid, gas) Will burn if involved in a fire.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.95

Solubility(ies)

Solubility (water) Insoluble in water.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactProlonged skin contact may cause temporary irritation.Eye contactDirect contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed.

Symptoms Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

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Components	Species	Test Results
1-Propene, 2-methyl- sulfuri	ized (CAS 68511-50-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
Vapor		
LC50		> 0.39 mg/l, 4 hours
Oral LD50	Rat	6700 mg/kg
		5700 mg/kg
, ,	bamodithioato)di-μ-oxodioxodi-, sulfu	rized (CAS 68412-26-0)
<u>Acute</u>		
Dermal LD50	Rabbit	> 5000 mg/kg
Inhalation	Rabbit	2 Cooo mg/kg
Dust		
LC50	Rat	34.4 mg/l, 4 Hours
Oral		3 /
LD50	Rat	> 2000 mg/kg
Talc (CAS 14807-96-6)		
Acute		
Oral		
LD50	Rat	> 5000 mg/kg
Urea, N-(4-((4-(((cyclohexyla	amino)carbonyl)amino)phenyl)methyl)phenyl)-N'-octadecyl- (CAS 154099-21-5)
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eyeDirect contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Molybdenum, A3 Confirmed animal carcinogen with unknown relevance to

bis(dibutylcarbamodithioato)di-µ-oxodioxodi-, sulfurized humans.

(CAS 68412-26-0)

Talc (CAS 14807-96-6)

A4 Not classifiable as a human carcinogen.

Costa Rica OELs: Carcinogen

Molybdenum, Confirmed animal carcinogen with unknown relevance to humans.

bis(dibutylcarbamodithioato)di- μ -oxodioxodi-, sulfurized (CAS 68412-26-0)

Talc (CAS 14807-96-6)

Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Talc (CAS 14807-96-6) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity - Not classified.

single exposure

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Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Other information None known.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Test Results Components **Species**

Molybdenum, bis(dibutylcarbamodithioato)di-u-oxodioxodi-, sulfurized (CAS 68412-26-0)

Aquatic

Acute

Algae EL50 Pseudokirchneriella subcapitata > 100 mg/l, 72 Hours Crustacea EL50 Daphnia magna > 100 mg/l, 48 Hours Fish LL50 Pimephales promelas > 100 mg/l, 48 Hours

Chronic

NOELR Pseudokirchneriella subcapitata 100 mg/l, 72 Hours Algae

Urea, N-(4-(((4-(((cyclohexylamino)carbonyl)amino)phenyl)methyl)phenyl)-N'-octadecyl- (CAS 154099-21-5)

Aquatic

Acute

EL50 Algae Raphidocelis subcapitata > 100, 72 Hours EL50 > 100 mg/l, 48 Hours Crustacea Daphnia magna Fish LL50 Danio rerio > 100 mg/l, 96 Hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

The product is insoluble in water. Expected to have low mobility in soil.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ANTT

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

SCT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

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List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ANTT: National Agency of Land Transport.

CAS: Chemical Abstract Service.
DOT: Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NFPA: National Fire Protection Association.

SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).

STEL: Short term exposure limit. TWA: Time Weighted Average.

References IARC Monographs. Overall Evaluation of Carcinogenicity

Workplace Threshold Quantities of Hazardous Chemicals

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Disclaimer

The Timken Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.