

1. Identification of the substance or mixture

Product identifier/name based on GHS **Timken GR220**

Other means of identification Not available.

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.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name The Timken Company
Address 4500 Mount Pleasant Street NW
 North Canton, OH 44720
 United States
Telephone (234) 262-3000
Website Not available.
E-mail Not available.
Contact person INFOTRAC
Emergency phone number 1-800-535-5053

2. Hazards identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Label elements

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Not assigned.

Response Not assigned.

Storage Not assigned.

Disposal Not assigned.

Pictograms (hazard symbols) None.

Other hazards which do not result in classification None known.

Supplemental information None.

3. Composition / information on ingredients

Substance or mixture Mixture

Chemical property

| Chemical name | CAS Number | Concentration (%) |
|--|-------------|-------------------|
| 1-Decene, homopolymer, hydrogenated | 68037-01-4 | 50 - 90 |
| 3,3'-dicyclohexyl-1,1'-methylenebis (4,1-phenylene)diurea | 58890-25-8 | 5 - 10 |
| 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)carbonyl)amino)phenyl)methyl)phenyl)-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. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Extinguishing media to avoid | 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. |
| Specific / special fire-fighting procedures | Use water spray to cool unopened containers. |
| Protection of fire-fighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

6. Accidental release (spill or leakage) measures

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| Methods and materials for containment and cleaning up | 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

Preventative measures for safe handling

| | |
|--------------------------------------|--|
| Technical measures | No specific recommendations. |
| Local and general ventilation | Provide adequate ventilation. |
| Safe handling advice | Avoid prolonged exposure. Observe good industrial hygiene practices. |
| Precautions for safe handling | Use personal protection recommended in Section 8 of the SDS. |

Conditions for safe storage

| | |
|------------------------------------|--|
| Technical measures | No specific recommendations. |
| Suitable storage conditions | Store away from incompatible materials (see Section 10 of the SDS). |
| Safe packaging materials | Store in original tightly closed container. |
| Any incompatibilities | Strong oxidizing agents. For further information, please refer to section 10 of the SDS. |

8. Exposure controls/personal protection

Control parameters

Indonesia. OELs (Minister of Manpower and Transmigration Regulation No.5 of 2018 concerning Work Safety and Health, Annex III)

| Components | Type | Value | Form |
|-----------------------|------|---------------------|-----------------------|
| Talc (CAS 14807-96-6) | TWA | 2 mg/m ³ | Respirable particles. |

US. ACGIH Threshold Limit Values (TLV)

| Components | Type | Value | Form |
|-----------------------|------|---------------------|----------------------|
| Talc (CAS 14807-96-6) | TWA | 2 mg/m ³ | Respirable fraction. |

| | |
|--|---|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| 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 | |
| Respiratory protection | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. |
| Hand protection | Wear appropriate chemical resistant gloves. |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin and body protection | Wear suitable protective clothing. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | 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

Empirical data of the substance or mixture

Organoleptic properties (shape, color, etc.)

| | |
|--|----------------------------------|
| 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 range | Not available. |
| 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 (n-octanol/water) | Not available. |
| 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

| | |
|---|---|
| Reactivity | The 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

Complete and comprehensive description of the various toxicological / health effects

| | |
|---|--|
| Acute toxicity | Not expected to be acutely toxic. |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No 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, bis(dibutylcarbamodithioato)di- μ -oxodioxodi-, sulfurized (CAS 68412-26-0) | A3 Confirmed animal carcinogen with unknown relevance to humans. |
| Talc (CAS 14807-96-6) | A4 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 | Not classified. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | No adverse effects due to inhalation are expected. |
| Skin contact | Prolonged skin contact may cause temporary irritation. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | May cause discomfort if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Delayed and immediate effects and also chronic effects from short and long term exposure Prolonged inhalation may be harmful.

Numerical measures of toxicity

| Components | Species | Test Results |
|---|---------|--------------------|
| Molybdenum, bis(dibutylcarbamodithioato)di- μ -oxodioxodi-, sulfurized (CAS 68412-26-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 5000 mg/kg |
| Inhalation | | |
| <i>Dust</i> | | |
| LC50 | Rat | 34.4 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg |
| Talc (CAS 14807-96-6) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |

| Components | Species | Test Results |
|--|---------------------------|--------------|
| Urea, N-(4-((4-(((cyclohexylamino)carbonyl)amino)phenyl)methyl)phenyl)-N'-octadecyl- (CAS 154099-21-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg |
| Interactive effects | Not available. | |
| Mixture versus substance information | No information available. | |
| 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.

| Components | Species | Test Results |
|--|---------|--|
| Molybdenum, bis(dibutylcarbamodithioato)di- μ -oxodioxodi-, sulfurized (CAS 68412-26-0) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| 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 |
| <i>Chronic</i> | | |
| Algae | NOELR | Pseudokirchneriella subcapitata 100 mg/l, 72 Hours |
| Urea, N-(4-((4-(((cyclohexylamino)carbonyl)amino)phenyl)methyl)phenyl)-N'-octadecyl- (CAS 154099-21-5) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EL50 | Raphidocelis subcapitata > 100, 72 Hours |
| Crustacea | EL50 | Daphnia magna > 100 mg/l, 48 Hours |
| 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 immiscible with water and will spread on the water surface.

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. Waste disposal

Methods of disposal Dispose in accordance with all applicable regulations.

Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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

CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon, March 10, 2008)

Not regulated.

Dangerous Substances that Must be Registered (Regulation of the Minister of Health of the Republic of Indonesia, No. 472/Menkes/Per/V/1996)

Not regulated.

Import and Distribution Control of Hazardous Materials (Minister of Trade Regulation No. 75/M-DAG/PER/10/2014, Annex I)

Not listed.

Precursor Chemicals (Ministry of Industry and Trade Decree No. 647/MPP/Kep/10/2004 concerning Regulation on Import of Precursors, Attachment 1, Oct. 18, 2004)

Not regulated.

Prohibited Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 1)

Not regulated.

Restricted Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 2)

Not regulated.

Toxic and Hazardous Materials List (Decree of the Ministry of Industry on the Safeguarding of Toxic and Hazardous Materials in Industrial Plants, No. 148/M/SK/4/1985)

Not regulated.

Hazardous Substances Approved for Use (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment I)

Listed substances

Not regulated.

Listed substances / Allowed until 2040

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References

IARC Monographs. Overall Evaluation of Carcinogenicity

Issued by

Not available.

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.

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Revision date

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