



SAFETY DATA SHEET

Section 1: Identification of the chemical product and of the supplier

Commercial name Timken GR231
Recommended use of the chemical and restrictions on use
Recommended use Lubricating grease.
Recommended restrictions For industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name The Timken Company
Address 4500 Mount Pleasant Street NW
North Canton, OH 44720
United States
Telephone (234) 262-3000
Website Not available.
Supplier's e-mail address Not available.
Contact person INFOTRAC
Emergency telephone number in Chile 1-800-535-5053

Section 2: Hazards identification

Classification according to GHS

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Hazard symbol None.
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.

Other hazards None known.

Section 3: Composition/information on ingredients

Mixture

Systematic chemical name	Common or generic name	Concentration range	CAS number
White mineral oil (Viscosity >7 =<20.5 mm ² /s)		77,24	8042-47-5
Classification:	Asp. Tox. 1;H304		
Alkylated phosphorothioate		0,5	192268-65-8
Classification:	Repr. 2;H361d, Aquatic Chronic 4;H413		
Triphenyl phosphorothionate		0,5	597-82-0
Classification:	Repr. 2;H361		

Section 4: First-aid measures

Inhalation Move to fresh air. 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. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Expected acute effects	None known.
Expected delayed effects	The product contains a small amount of a substance that is suspected of damaging fertility or the unborn child.
Most important symptoms/effects	Direct contact with eyes may cause temporary irritation.
Protection for first-aid providers	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Special notes for treating physician	Treat symptomatically.

Section 5: Fire-fighting measures

Extinguishing media	Foam. Dry chemicals. Carbon dioxide (CO ₂).
Inappropriate extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific associated hazards	During fire, gases hazardous to health may be formed.
Specific extinguishing methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Precautions for emergency personnel and/or firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental release 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 material for containment, confinement, and/or abatement	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. The product is insoluble in water.
Additional measures for preventing disasters	Not available.
Other information related to discharges/spills	Not available.

Section 7: Handling and storage

Handling

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Operational and technical measures	No specific recommendations.
Other precautions	Avoid prolonged or repeated contact with skin.
Prevention of contact	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.

Storage

Conditions for safe storage	Keep away from heat and sources of ignition. Store away from incompatible materials (see Section 10 of the SDS).
Technical measures	No specific recommendations.
Incompatible substances and mixtures	Strong oxidizing agents.
Materials for containers and/or packaging	Store in original tightly closed container.

Section 8: Exposure controls/personal protection

Maximum permissible concentration

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
White mineral oil (Viscosity >7 =<20.5 mm ² /s) (CAS 8042-47-5)	TWA	5 mg/m ³	Inhalable fraction.

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

Individual protection measures, such as personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Wear appropriate chemical resistant gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
Engineering measures	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 expos

Section 9: Physical and chemical properties

Appearance

Physical state	Solid.
Form	Grease.
Color	Colorless.
Odor	Mild. Petroleum solvent.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Upper/lower explosive limits	
Explosion limit - lower (%)	Not available.
Explosion limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Viscosity	180 cSt
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Section 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.

Section 11: Toxicological information

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
White mineral oil (Viscosity >7 =<20.5 mm ² /s) (CAS 8042-47-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/l
Oral		
LD50	Rat	> 5000 mg/kg

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.

Reproductive toxicity Based on available data, the classification criteria are not met. The product contains a small amount of a substance that is suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Possible routes of exposure Inhalation. Skin contact. Eye contact.

Section 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
White mineral oil (Viscosity >7 =<20.5 mm ² /s) (CAS 8042-47-5)		
Aquatic		
<i>Acute</i>		
Crustacea	LL50 Invertebrates (Invertebrates)	100 mg/l
Fish	LL50 Fish	10 mg/l

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available.

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

Section 13: Information regarding the disposal of the substance or mixture

Remains/residues 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 (see: Disposal instructions).

Contaminated container, packaging and contaminated materials 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.

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

Other special precautions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Section 14: Transport information

Classification according to NCh382

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.

Section 15: Regulatory information

National regulations

Ministry of Health Regulations On Classification, Labelling, and Notification for Hazardous Chemical Substances and Mixtures, Decree 57 of November 26, 2019
NCh.1411/4/1978 - Safety signs for risk identification
NCh.2245/2015 - Safety Data Sheet for chemica

Controlled chemical substances susceptible to manufacturing of narcotics and psychotropic drugs, Lists I, II, III (Decree 1358, published April 17, 2007)

Not listed.

Prohibited Substances (Reg. 594/1999, art. 65, as of Nov. 8, 2012)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

Section 16: Other information

List of abbreviations

Not available.

References

Not available.

Classification according to NCh382

Not regulated as dangerous goods.

Label according to NCh2190

Not available.

Revision date

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Referenced hazard warnings

H304 May be fatal if swallowed and enters airways.
H361 Suspected of damaging fertility or the unborn child.
H361d Suspected of damaging the unborn child.
H413 May cause long lasting harmful effects to aquatic life.

Creation date

09-November-2023

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09-November-2025

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, sto