

Section 1: Identification**Product identifier** Timken GR232**Other means of identification** Not available.**Recommended use of the chemical and restrictions on use****Recommended use** Lubricating grease.**Restrictions on use** For industrial use only.**Details of manufacturer or importer****Manufacturer**

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.

Emergency phone number 0800 764 766 (NZ Poisons Centre); 111 (Emergency Services); +61 3 9573 3188 (CHEMWATCH)**Section 2: Hazard identification****Classification of the hazardous chemical****Physical hazards** Not classified.**Health hazards** Not classified.**Environmental hazards** Not classified.**Label elements, including precautionary statements****Hazard symbol(s)** None.**Signal word** None.**Hazard statement(s)** The mixture does not meet the criteria for classification.**Precautionary statement(s)****Prevention** Not assigned.**Response** Not assigned.**Storage** Not assigned.**Disposal** Not assigned.**Other hazards which do not result in classification** None.**Supplemental information** None.**Section 3: Composition/information on ingredients****Substance or mixture** Mixture

Chemical property	CAS Number	Concentration (%)
1-Decene, homopolymer, hydrogenated	68037-01-4	40 - 60
Antimony tris[O,O-dipropyl] tris(dithiophosphate)	15874-48-3	≤ 1
Benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	≤ 1
Zinc dialkyl dithiophosphate	68457-79-4	0.2 - 1

Composition comments All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.**Section 4: First-aid measures****Description of necessary 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. Get medical attention if symptoms occur.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Symptoms caused by exposure	Direct contact with eyes may cause temporary irritation.
Medical attention and special treatment	Treat symptomatically.

Section 5: Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Extinguishing media to avoid	Do not use water jet as an extinguisher, as this will spread the fire.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	During fire, gases hazardous to health may be formed.
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.
Hazards from combustion products	Carbon oxides.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Section 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. 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 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.

Section 7: Handling and storage

Precautions for safe handling Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

Section 8: Exposure controls/personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

New Zealand. OELs (Workplace Exposure Standards and Biological Exposure Indices)

Components	Type	Value
Antimony tris[O,O-dipropyl] tris(dithiophosphate) (CAS 15874-48-3)	TWA	0.5 mg/m3

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value
Antimony tris[O,O-dipropyl] tris(dithiophosphate) (CAS 15874-48-3)	TWA	0.5 mg/m3

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value
Antimony tris[O,O-dipropyl] tris(dithiophosphate) (CAS 15874-48-3)	TWA	0.5 mg/m3

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
Antimony tris[O,O-dipropyl] tris(dithiophosphate) (CAS 15874-48-3)	TWA	0.5 mg/m3

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

Exposure guidelines Occupational Exposure Limits are not relevant to the current physical form of the product.

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, for example personal protective equipment (PPE)	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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 and protective equipment to remove contaminants.

Section 9: Physical and chemical properties

Appearance

Physical state	Solid.
Form	Grease.
Colour	Off-white.
Odour	Mild.
Odour threshold	Not available.
pH	Not available.
pH concentration	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour pressure temp.	Not available.
Vapour density	Not available.
Relative density	Not available.
Relative density temperature	Not available.
Solubility(ies)	
Solubility (water)	Unknown
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Kinematic viscosity	Not available.
Other physical and chemical parameters	
Density	Not available.

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 oxidising agents.

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

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.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
------------	---------	--------------

Benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts (CAS 70024-69-0)

Acute

Dermal

LD50	Rabbit	> 4000 mg/kg, 24 Hours
------	--------	------------------------

Inhalation

Aerosol

LC50	Rat	> 1.9 mg/l, 4 Hours
------	-----	---------------------

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 irritation Not available.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

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

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Narcotic effects None known.

Chronic effects None known.

Further information None known.

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
------------	---------	--------------

Benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts (CAS 70024-69-0)

Aquatic

Acute

Crustacea	EC50	Daphnia magna	> 1000 mg/l, 48 hours
-----------	------	---------------	-----------------------

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

Bioaccumulative potential No data available.

Mobility in soil	No data available for this product.
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.

Section 13: Disposal considerations

Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Residual waste	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 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.
Special precautions to be taken during disposal	Dispose in accordance with all applicable regulations.
Method of disposal that should not be used	None known.

Section 14: Transport information

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

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

1-Decene, homopolymer, hydrogenated (CAS 68037-01-4)	Does not have individual approval but may be used under an appropriate group standard
Antimony tris[O,O-dipropyl] tris(dithiophosphate) (CAS 15874-48-3)	Does not have individual approval but may be used as a component in a product covered by a group standard. It is not approved for use as a chemical in its own right.
Benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts (CAS 70024-69-0)	Does not have individual approval but may be used as a component in a product covered by a group standard. It is not approved for use as a chemical in its own right.
Zinc dialkyl dithiophosphate (CAS 68457-79-4)	Does not have individual approval but may be used as a component in a product covered by a group standard. It is not approved for use as a chemical in its own right.

International regulations

Stockholm Convention

Not listed.

Rotterdam Convention

Not listed.

Montreal Protocol

Not listed.

Kyoto Protocol

Not listed.

Basel Convention

Not listed.

Section 16: Other information

References	Not available.
-------------------	----------------

Issued by	Not available.
------------------	----------------

Prepared 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.
-------------------	---

Issue date	01-December-2025
-------------------	------------------

Revision date	-
----------------------	---