

SAFETY DATA SHEET

1. Identification

Product identifier

TIMKEN GR 232

Other means of identification

Recommended use: Restrictions on use: No data available.

Lubricating grease Industrial use only

Manufacturer/Importer/Distributor Information

Distributor

Company Name:	me: The Timken Corporation	
Address:	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 identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Unknown toxicity - Health

Acute toxicity, oral	2.42 %
Acute toxicity, dermal	10.96 %
Acute toxicity, inhalation, vapor	37.14 %
Acute toxicity, inhalation, dust or mist	32.54 %
	gredient or ingredients of unknown acute toxicity

Label Elements

Hazard Symbol:



Warning

Causes serious eye irritation.



Statements	
Prevention:	Wash face, hands and any exposed skin thoroughly after handling. Wear eye protection/face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated heavy paraffinic	Mineral oil,	64742-54-7	45 - 70%
Polyisobutylene	Polyisobutylene,	Trade Secret	3 - 7%
Dicarboxylic acid	Dicarboxylic acid,	Trade Secret	0.5 - 1.5%
Zinc compound	Zinc compound,	Trade Secret	0.1 - 1%
Antimony compound	Antimony compound,	Trade Secret	0.1 - 1%

* 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.

4. First-aid measures		
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.	
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:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.	
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 fire- extinguishing 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	d 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	6	
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. Ensure adequate ventilation.	
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.	
Environmental Precautions:	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. Avoid contact with eyes. Wash hands thoroughly after handling.	
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.	

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

C	hemical Identity	Туре	Exposure Limit Values	Source
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Distillates (petroleum), hydrotreated heavy paraffinic - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Distillates (petroleum), hydrotreated heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Distillates (petroleum), hydrotreated heavy paraffinic - Mist.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Antimony compound - as Sb	8 HR ACL	0.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	1.5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Antimony compound - as Sb	TWA	0.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Antimony compound - as Sb	TWA	0.5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2012)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) 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.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection 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

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Physical state:	solid
Form:	Grease
Color:	Off-white
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:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	0.85
Solubility(ies)	0.00
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity: Not reactive during normal use.	
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid heat or contamination. 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. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.



11. Toxicological information

Information on likely routes o Inhalation:	of exposure None under normal conditions. Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	Causes serious eye irritation.
Ingestion:	May be harmful if swallowed. May be ingested by accident. Ingestion may cause irritation and malaise.
Symptoms related to the phy	sical, 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 poss	ible routes of exposure)
Oral Product:	ATEmix: > 5000 mg/kg
Dermal Product:	ATEmix: > 5000 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Delayed and immediate effect Product:	cts, including chronic effects from short- and long-term exposure No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irri Product:	itation No data available.
Respiratory or Skin Sensitiza Product:	ation No data available.
Carcinogenicity Product:	No data available.
No carcinogenic	aluation of Carcinogenic Risks to Humans: components identified gram (NTP) Report on Carcinogens:

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified



ACGIH Carcinogen List: No carcinogenic components identified Germ Cell Mutagenicity

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure 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.	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio		



Product:

No data available.

Bioaccumulative potential

Bioconcentration Factor Product:	(BCF) No data available.
Partition Coefficient n-octano	l / water (log Kow)
Product:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	6
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

TDG

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.

15. Regulatory information

Canada Federal Regulations List of Toxic Substances (CEPA, Schedule 1) Not Regulated

Export Control List (CEPA 1999, Schedule 3) Not Regulated

National Pollutant Release Inventory (NPRI) Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4) NPRI Not Regulated

Greenhouse Gases

Not Regulated



16.Other information, including date of preparation or last revision

Issue Date:	03/30/2023
Revision Date:	01/13/2023
Version #: Further Information:	1.0 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.