

SAFETY DATA SHEET

1. Identification

Product name TIMKEN GR224

Other means of identification No data available.

Recommended use: Lubricating grease

Restrictions on use: Industrial use only

Manufacturer/Importer/Supplier/Distributor Information

Supplier

Company Name: The Timken Corporation Address:

4500 Mt. Pleasant St. NW

North Canton, OH U.S.A.

234.262.3000 Telephone:

Emergency telephone number: INFOTRAC US & CANADA - 800.535.5053 Outside U.S. & Canada

+1 352.323.3500

2. Hazard(s) identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Causes serious eye irritation.

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear

protective gloves/protective clothing/eye protection/face protection.

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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.

Unknown toxicity - Health

Acute toxicity, oral 11.31 %
Acute toxicity, dermal 12.17 %
Acute toxicity, inhalation, vapor 97.99 %
Acute toxicity, inhalation, dust or mist

3. Composition/information on ingredients

Hazardous Component(s):

Chemical name	CAS-No.	Concentration
Paraffin oils (petroleum)	Confidential	60 - <100%
Lithium soap	Confidential	10 - <20%
Polyisobutylene	Confidential	1 - <5%
Mineral oils	Confidential	1 - <5%
Boric acid, potassium salt	Confidential	1 - <5%
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 1,1'-(thiodi-2,1-ethanediyl) ester	41484-35-9	1 - <3%
Zinc compound	Confidential	0.1 - <1%

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

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.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

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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 fireextinguishing 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 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

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

including any incompatibilities:

Store in original tightly closed container. Avoid contact with oxidizing

agents. Store away from incompatible materials.

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8. Exposure controls/personal protection

Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Paraffin oils (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Paraffin oils (petroleum) - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Paraffin oils (petroleum) - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Mineral oils - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

Protective Measures: 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.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

Eye Protection: Wear safety glasses with side shields (or goggles).

Skin and Body Protection: Wear chemical-resistant gloves, footwear, and protective clothing appropriate

for the risk of exposure. Contact health and safety professional or manufacturer

for specific information.

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

No data available.

that cannot be cleaned.

9. Physical and chemical properties

Appearance

Odor threshold:

Physical state:solidForm:GreaseColor:Red

Odor: Mild petroleum/solvent

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Initial boiling point and boiling range:

No data available.

218.33 °C (424.99 °F)

Evaporation rate:No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

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Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

Relative density: 0.93

Solubility(ies)

Solubility in water: Insoluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

No data available.

Viscosity: > 22 mm2/s (40 °C, estimated)

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.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed. May be ingested by accident. Ingestion may

cause irritation and malaise.

Inhalation: Harmful if inhaled. Inhalation is the primary route of exposure. In high

concentrations, vapors, fumes or mists may irritate nose, throat and mucus

membranes.

Skin Contact: Causes skin irritation. Prolonged skin contact may cause redness and

irritation.

Eye contact: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

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Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix (): 2000 - 5000 mg/kg

Dermal

Product: ATEmix (): 2000 - 5000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

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 - Single Exposure Product: No data available.

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Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

General information: This product has not been evaluated for ecological toxicity or other

environmental effects.

13. Disposal considerations

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

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

15. Regulatory information

US Federal Regulations

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Serious eye damage or eye irritation

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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US State Regulations

US. California Proposition 65



This product can expose you to chemicals including Methyl isobutyl ketone which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

CumeneEthylbenzene2-Propenoic acid, ethyl ester Naphthalene which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

Issue Date: 22.02.2023

Revision Date: 06.10.2022

Version #: 1.0

Further Information: 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.

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