

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: TIMKEN GR 255

Other means of identification: No data available.

Recommended use of the chemical and restrictions on use

Recommended use: Lubricating grease

Recommended restrictions: Industrial use only

Manufacturer/Importer/Distributor Information

Distributor

Company Name: Address:

The Timken Corporation 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(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 3
Serious Eye Damage/Eye Irritation Category 2A

Unknown toxicity - Health

Acute toxicity, oral 2.81 %
Acute toxicity, dermal 5.11 %
Acute toxicity, inhalation, vapor 26.39 %
Acute toxicity, inhalation, dust 24.88 %

or mist

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: H316: Causes mild skin irritation. H319: Causes serious eye irritation.

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Precautionary Statements

Prevention: P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear eye protection/face protection.

Response: P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	40 - 70%
Residual oils (petroleum), solvent-dewaxed	64742-62-7	15 - 40%
Residual oils (petroleum), solvent deasphalted	64741-95-3	7 - 13%
Lithium soap	7620-77-1	5 - 10%
Asphalt, non-oxidized	8052-42-4	1 - 5%
Graphite	7782-42-5	1 - 5%
Zinc compound	68457-79-4	0.1 - 1.0%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

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.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel

unwell. Do NOT induce vomiting.

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.

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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 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 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.

For non-emergency personnel: No data available.

For emergency responders: No data available.

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.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated heavy naphthenic	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Residual oils (petroleum), solvent-dewaxed	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Residual oils (petroleum), solvent deasphalted	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Asphalt, non-oxidized - Inhalable fraction as benzene solubles	VLE-PPT	0.5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Graphite - Respirable fraction.	VLE-PPT	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

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

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Appearance

Physical state:solidForm:GreaseColor:Dark gray

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: 248 °C

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

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

Relative density: 1.01

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:

Products:

None under normal conditions.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

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Inhalation: 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 ingested by accident. Ingestion may cause irritation and malaise.

May be harmful if swallowed.

Symptoms related to the physical, 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 possible routes of exposure)

Oral

Product: ATEmix (): > 5000 mg/kg

Dermal

Product: ATEmix (): > 5000 mg/kg

Inhalation

Product: No data available.

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Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic

LC 50 (Rat): > 5,000 mg/l LC 50 (Rat): > 5.53 mg/l LC 50: > 5,000 mg/l

Residual oils (petroleum), solvent-dewaxed

LC 50 (Rat): < 5.7 mg/l LC 50: 5.7 mg/l

Residual oils (petroleum), solvent deasphalted

LC 50 (Rat): 10.5 mg/l LC 50 (Rat): 2.18 mg/l LC 50 (Rat): 9.6 mg/l LC 50 (Rat): > 2.5 mg/l LC 50 (Rat): > 5.53 mg/l

LC 50 (Rat): > 2.5 mg/l LC 50 (Rat): > 5.53 mg/l LC 50 (Rat): > 5 mg/l LC 50 (Rat): > 5.3 mg/l LC 50 (Rat): > 5.3 mg/l LC 50 (Rat): < 5.7 mg/l LC 50 (Rat): < 5.7 mg/l LC 50 (Rat): > 4.026 mg/l LC 50 (Rat): > 5 mg/l LC 50 (Rat): > 5 mg/l LC 50 (Rat): > 5.2 mg/l LC 50 (Rat): > 5 mg/l LC 50 (Rat): > 5 mg/l

LC 50 (Rat): > 5 mg/l LC 50 (Rat): 5.7 mg/l LC 50 (Rat): > 5.2 mg/l LC 50 (Rat): > 4.7 mg/l LC 50 (Rat): > 5.3 mg/l

Graphite LC 50 (Rat): > 2,000 mg/m3

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

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Distillates (petroleum),

hydrotreated heavy

naphthenic

Residual oils (petroleum), solvent-

dewaxed Residual oils

(petroleum), solvent

deasphalted

Lithium soap

in vivo (Rabbit): Not irritant, 72 h Experimental result, Key study in vivo (Rabbit): Not irritant, 24 h Experimental result, Key study

in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study

in vivo (Rabbit): Not irritant, 24 h Experimental result, Key study in vivo (Rabbit): Not irritant, 72 h Experimental result, Key study

in vivo (Rabbit): Not irritant, 72 h Experimental result, Key study in vivo (Rabbit): Not irritant, 24 h Experimental result, Key study

in vivo (Rabbit): Slightly irritating, 1 - 7 d Experimental result, Supporting

study

In vitro (Human, in vitro reconstituted epidermis model): Not irritant, 6 d

Experimental result, Key study

in vivo (Rabbit): Not irritant, 4 - 72 h Experimental result, Supporting study In vitro (Human, in vitro reconstituted epidermis model): Non-corrosive, 2 d

Experimental result. Key study

Asphalt, non-oxidized

in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

Irritating.

Graphite in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

In vitro (In vitro): Not irritant , 3 min Experimental result, Supporting study in vivo (Rabbit): Not irritant , > 0 - 72 h Experimental result, Key study In vitro (In vitro): Not irritant , 1 h Experimental result, Supporting study (Rabbit): Not irritant , 24 - 72 h Experimental result, Supporting study

in vivo (Rabbit): Category 2, 24 - 72 h Experimental result, Key study in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

Serious Eye Damage/Eye Irritation

Zinc compound

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy

naphthenic

Rabbit, 48 hrs: Not irritating EU

Residual oils

(petroleum), solvent-

dewaxed

Rabbit, 24 hrs: Not irritating EU

Residual oils (petroleum), solvent

deasphalted

Rabbit, 24 hrs: Not irritating EU Rabbit, 48 hrs: Not irritating EU

Nabbit, 40 ms. Not imitating LO

Asphalt, non-oxidized

Rabbit, 24 hrs: Not irritating EU

Irritating.

Zinc compound Rabbit, 24 - 72 hrs: Corrosive OECD GHS

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

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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.

Specific Target Organ Toxicity - Repeated Exposure

Product: 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.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy

naphthenic

LC 50 (Fish, 96 h): > 100 mg/l

Residual oils (petroleum),

solvent deasphalted

LC 50 (Fish, 96 h): > 100 mg/l

LC 50 (Fish, 96 h): > 100 mg/l Graphite

LC 50 (Pimephales pomoxis, 96 h): 100 mg/l Zinc compound

LC 50 (Pimephales pomoxis, 96 h): 25 - 50 mg/l

EC50 (Shrimp (Callianassa australiensis), 48 h): > 100 mg/l

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Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy

naphthenic

Graphite EC50 (Daphnia, 48 h): > 100 mg/l

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Zinc compound EC50 (Daphnia magna, 48 h): 4 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), EC50 (Daphnia, 14 d): 0.058 mg/l

hydrotreated heavy EC50 (21 d): 0.054 mg/l naphthenic EC50 (2 d): > 10,000 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Distillates (petroleum),

hydrotreated heavy

naphthenic

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Residual oils (petroleum),

solvent deasphalted

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Graphite EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

EC50 (Pseudokirchneriella subcapitata (green algae), 96 h): 1 mg/l Zinc compound

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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Distillates (petroleum),

hydrotreated heavy

naphthenic

Residual oils (petroleum),

solvent-dewaxed

Residual oils (petroleum),

solvent deasphalted

Lithium soap Asphalt, non-oxidized

Graphite

Zinc compound

No data available.

No data available.

No data available.

No data available. No data available.

No data available. No data available.

Other adverse effects: No data available.

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.

IATA

Not regulated.

IMDG

Not regulated.

15. Regulatory information

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

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not applicable

Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances

Not applicable

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

Zinc compound Listed.

Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)

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Not applicable

Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)

Not applicable

Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)
Not applicable

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

Issue Date: 04/04/2023

Revision Information: 01/19/2023: ARGHS_MX

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.