

## 1. Identification

**Product identifier** TPAG GREASE 100K

**Other means of identification** None.

### Recommended use of the chemical and restrictions on use

**Recommended use** Lubricating grease.

**Recommended restrictions** Uses other than the recommended use.

### Manufacturer/Importer/Supplier/Distributor information

#### 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.  
**Contact person** INFOTRAC

**Emergency phone number** 1-352-323-3500

## 2. Hazards identification

### Classification of the substance or mixture

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

### GHS label elements, including precautionary statements

**Pictograms** None.

**Signal word** None.

**Hazard statements** 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 which do not result in classification** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
Nonanedioic acid, dilithium salt		38900-29-7	≤ 3
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)		2215-35-2	≤ 1
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene		68411-46-1	≤ 0.5

**Composition comments** All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

## 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.

<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Fire fighting equipment/instructions** Use water spray to cool unopened containers.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

## 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 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.

## 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).

## 8. Exposure controls/personal protection

**Control parameters/Occupational exposure limits** No exposure limits noted for ingredient(s).

**Appropriate engineering control 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 exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**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** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** 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.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

<b>Form</b>	Grease.
<b>Colour</b>	Red.
<b>Odour</b>	Other.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>pH concentration</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 200 °C (> 392 °F)
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour pressure temp.</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Density and/or relative density</b>	
<b>Density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Relative density temperature</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Unknown
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Kinematic viscosity</b>	Not available.
<b>Particle characteristics</b>	Not available.
<b>Other data</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>Viscosity</b>	220 cSt (40 °C)

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Acute toxicity</b>	Not expected to be acutely toxic.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
TPAG GREASE 100K (CAS Mixture)		
<b>Acute</b>		
<b>Oral</b>		
ATEmix		9432 mg/kg bw
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (CAS 2215-35-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 25000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 2 mg/l, 1 Hours
<b>Oral</b>		
LD50	Rat	2230 mg/kg
<b>Symptoms</b>	Direct contact with eyes may cause temporary irritation.	
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Respiratory or skin sensitisation</b>		
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.	
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.	
<b>Reproductive toxicity</b>	Not classified.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Chronic effects</b>	Not available.	
<b>Mixture versus substance information</b>	No information available.	

## 12. Ecological information

**Toxicity** 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.

### Ecotoxicity

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (CAS 2215-35-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EL50 Daphnia magna	23 mg/l, 48 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No data available.

## 13. Disposal considerations

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Special precautions** Dispose in accordance with all applicable regulations.

## 14. Transport information

### ADR

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to IMO instruments** Not applicable.**15. Regulatory information****Safety, health and environmental regulations specific for the product in question****Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)**

Not regulated.

**Chemical Weapons Prohibition (Act)**

Not applicable.

**Environmental Protection and Management (Hazardous Substances) Regulations**

Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) (CAS 2215-35-2) 0 kg

**Environmental Public Health Act**

Not applicable.

**Misuse of Drugs Act****Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III, as amended)**

Not regulated.

**Drug Precursors (Misuse of Drugs Act, Third Schedule, Parts I & II, as amended)**

Not regulated.

**Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule, as amended)**

Not regulated.

**International regulations****Montreal Protocol**

Not listed.

**Stockholm Convention**

Not listed.

**Rotterdam Convention**

Not listed.

**Kyoto Protocol**

Not listed.

**Basel Convention**

Not listed.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

<b>References</b>	IARC Monographs. Overall Evaluation of Carcinogenicity
<b>Issued by</b>	Not available.
<b>Prepared by</b>	Not available.
<b>Disclaimer</b>	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.
<b>Issue date</b>	19-November-2025
<b>Revision date</b>	-
<b>Key/legend</b>	Not applicable.