

Tgrease 3000

Version 2.0

Revision Date 2025/05/06

Document no. 130000160074

Issue Date 2025/06/21

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

Section 1 - Chemical and Enterprise Identification**Product name** : Tgrease 3000**Product name in English** : Tgrease 3000**Recommended use of the chemical and restriction on use**

Recommended use : For Experimental Use Only

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier

Company : Tianjin Laird Technologies Ltd

Street address : C3&C4 Building, HongTai Industry Park, NO. 87 Tai Feng Road, TEDA, Tianjin, China

Telephone : 86 22 66298160

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Emergency telephone number : 86 532 8388 9090**Date of first preparation** : 2025/05/06**Section 2 - Hazard Identification****GHS Hazard Category**

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : not required

Hazardous warnings : Toxic to aquatic life with long lasting effects.

Precautionary statements : **Preventive Measures:**
Avoid release to the environment.

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Accident Response:

Collect spillage.

Safe Storage: No precautionary statements are applicable for Safe Storage.**Waste Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Main Symptom After Contact

Refer to section 4 of this SDS for information on symptoms, hazards and treatment after contact.

Section 3 - Ingredients/Composition Information**Chemical nature** : Mixture**Components**

Chemical name	CAS-No.	Concentration
Aluminium (stabilized)	7429-90-5	70 - 80%
Zinc oxide	1314-13-2	10 - 20%
Additive		1 - 10%

Section 4 - First-aid Measures

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First Aid responders should pay attention to self-protection and use the recommended protective clothing. Remove from exposure, lie down.

- Inhalation** : Is not an expected route of exposure under normal conditions. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep person calm. If symptoms persist, call a physician. If unconscious, place in recovery position and get medical attention immediately. Keep respiratory tract clear.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.
- Eye contact** : If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.
- Ingestion** : Rinse mouth. Call a physician immediately. Do NOT induce vomiting. Place unconscious person on the side in the recovery position and ensure open airways. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed** : May irritate skin.
May irritate eyes.
May cause irritation of the mucous membranes.
For further information see Section 11.
- Protection of first-aiders** : No information available.

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Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Symptoms may be delayed for several hours.

Section 5 - Fire-fighting Measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Dry powder, Sand

Unsuitable extinguishing media : Water, Carbon dioxide (CO₂), Foam

Specific hazards : Material will burn. May release toxic and/or hazardous fumes and gases. Dust may form explosive mixture in air. Do not allow run-off from fire fighting to enter drains or water courses. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hydrocarbons, carbon dioxide, Carbon monoxide, Metal oxides, Silicon oxides

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Further information : In the event of fire and/or explosion do not breathe fumes. Evacuate personnel to safe areas.

Section 6 - Leak Emergency Treatment

Protective measures, devices and emergency treatment procedure for workers : Keep unnecessary and unprotected personnel from entering. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Control access to area. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. If the material is involved in a fire, or if dusts are produced, no action shall be taken involving any personal risk or without suitable training. Avoid breathing dust.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.
The product should not be allowed to enter drains, water courses or the soil.

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- Methods and materials for containment and cleaning up** : Sweep up or vacuum up spillage and collect in suitable container for disposal. For disposal instructions see section 13. Large spills should be collected mechanically (remove by pumping) for disposal. Eliminate all ignition sources if safe to do so. Move it to a safe place. Do not touch spilled material. Avoid dust formation. Wet wipe or vacuum up using a high efficiency particulate air (HEPA) vacuum. Use explosion proof equipment. Do not dry sweep dust accumulation.
- Prevention of secondary hazards** : No information available.
- Additional advice** : Dispose of in accordance with local regulations.

Section 7 - Operation Handling and Storage

Operation Handling

- Technical measures/Precautions** : For personal protection see section 8. Handle in accordance with good industrial hygiene and safety practice. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Take precautionary measures against static discharges. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy and while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only with adequate ventilation/personal protection. Do not breathe dust.
- Precautions for safe handling** : Keep away from heat and sources of ignition. No smoking.

Storage

- Suitable storage conditions** : Keep in cool, dry place in original containers. Store away from incompatible materials (see Section 10). Store in a well-ventilated area away from heat and sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep tightly closed. Store in accordance with the particular national regulations.
- Advice on common storage: Keep away from oxidizing agents, strongly acid or alkaline materials and amines.
- Storage period: Store at room temperature.

Section 8 - Exposure Control and Personal Protection

Control parameters

Applicable occupational exposure limits are listed below.

Aluminium (stabilized)		
PC-TWA (Aluminium)	3 mg/m ³ (Total dust)	CN OEL (2019-08-27)
TWA (Aluminium)	1 mg/m ³ (Respirable particulate matter)	ACGIH (2013-03-01)
Zinc oxide		

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PC-TWA	3 mg/m3	CN OEL (2019-08-27)
PC-STEL	5 mg/m3	CN OEL (2019-08-27)
TWA	2 mg/m3 (Respirable particulate matter)	ACGIH (2007-01-01)
STEL	10 mg/m3 (Respirable particulate matter)	ACGIH (2007-01-01)
Additive		
TWA	10 ppm	ACGIH (2013-03-01)

Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering controls : Use a local and/or general ventilation system. Local exhaust ventilation should be employed to minimize airborne contamination. Use only with adequate ventilation. Any process that has the potential to generate dust should be performed using engineering controls, such as isolation, enclosures, local exhaust ventilation, wetting with appropriate solvent, or dust collection systems, to control airborne fibers and dusts below applicable limits. Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Suitable respiratory equipment: Respirator with a full face mask
Recommended Filter type: particulate prefilter

Hand protection : Material: Chemical-resistant gloves
Material: butyl-rubber
Material: Nitrile rubber
Protective gloves should be worn when the potential exists for prolonged or repeated skin contact.
Request information on glove permeation properties from the glove supplier. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields.
Ensure that eyewash stations and safety showers are close to the workstation location.
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.

Skin protection : Wear suitable protective clothing.
Wear impervious, thermal barrier/insulated clothing such as gloves, apron, boots, or whole bodysuit to prevent ANY contact with liquid or vaporizing material.

Hygiene measures : Wash hands before breaks and immediately after handling the product. Wash hands before eating, drinking, or smoking. Regular cleaning of equipment, work area and clothing. Wash contaminated clothing before re-use. Remove contaminated clothing and protective equipment before entering eating areas.
Avoid contact with the skin and the eyes.

Protective measures : Wear suitable protective equipment.

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Form : paste
Colour : grey**Odour** : not significant**Odour Threshold** : No information available.**pH** : No information available.**Melting point/freezing point**

No information available.

Boiling point, initial boiling point and boiling range

No information available.

Flash point : No information available.**Evaporation rate** : No information available.**Flammability** : The product is not flammable.**Upper/lower flammability or explosive limits**Upper explosion limit : No information available.
Lower explosion limit : No information available.**Vapour pressure** : No information available.**Vapour density** : No information available.**Density**Density : 2.45 g/cm³**Solubility(ies)**

Water solubility : insoluble

Particle characteristics

Assessment : No information available.

Partition coefficient: n-octanol/water : No information available.**Auto-ignition temperature**

No information available.

Decomposition temperature : No information available.**Viscosity**

Viscosity, kinematic : No information available.

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Molecular weight : No information available.**Oxidizing properties** : No information available.**Section 10 - Stability and Reactivity****Reactivity** : Stable at normal ambient temperature and pressure.**Chemical stability** : Stable at normal ambient temperature and pressure.**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.**Conditions to avoid** : Decomposes on heating. Avoid prolonged exposure at or above the recommended processing temperatures.**Materials to avoid** : Strong oxidizing agents, Strong acids, Strong bases, reactive metals**Hazardous decomposition products** : Carbon oxides, Metal oxides**Section 11 - Toxicological Information****Acute toxicity**

Oral

Aluminium (stabilized) : LD50/Rat: > 15,900 mg/kg
 Method: OECD Test Guideline 401
 The substance or mixture has no acute oral toxicity
 Information given is based on data obtained from similar substances.

Zinc oxide : LD50/Rat: > 5,000 mg/kg
 Method: OECD Test Guideline 401

Additive : LD50/Rat: > 2,000 mg/kg
 Method: OECD Test Guideline 423
 The substance or mixture has no acute oral toxicity

Inhalation

Aluminium (stabilized) : LC50/4 h/Rat(dust/mist): > 0.888 mg/l
 Method: OECD Test Guideline 403
 The substance or mixture has no acute inhalation toxicity
 No toxicologically significant effects were found at the highest dose tested., Information given is based on data obtained from similar substances.

Zinc oxide : LC50/4 h/Rat(dust/mist): > 5.7 mg/l
 Method: OECD Test Guideline 403
 The substance or mixture has no acute inhalation toxicity

Additive : LC50/4 h/Rat(dust/mist): 10 mg/l
 Method: OECD Test Guideline 403
 The substance or mixture has no acute inhalation toxicity
 Respiratory effects

Dermal

Aluminium (stabilized) : no data available
 Additive : no data available

Skin corrosion/irritation

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Aluminium (stabilized)	:	Species: Rabbit Result: Slight or no skin irritation Classification: No skin irritation Method: OECD Test Guideline 404 Minimal effects that do not meet the threshold for classification. Information given is based on data obtained from similar substances.
Zinc oxide	:	Species: Rabbit Result: No skin irritation Classification: Not classified as irritant Method: OECD Test Guideline 404
Additive	:	Species: Rabbit Result: Mild skin irritation Classification: Mild skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation		
Aluminium (stabilized)	:	Species: Rabbit Result: Slight or no eye irritation Classification: No eye irritation Method: Draize Test Minimal effects that do not meet the threshold for classification. Information given is based on data obtained from similar substances.
Zinc oxide	:	Species: Rabbit Result: No eye irritation Classification: Not classified as irritant Method: OECD Test Guideline 405 Minimal effects that do not meet the threshold for classification.
Additive	:	Species: human Result: Irritation to eyes, reversing after 7 to 21 days Classification: Irritating to eyes.
Respiratory or skin sensitisation		
Aluminium (stabilized)	:	Species: Guinea pig Result: Does not cause skin sensitization. Classification: Does not cause skin sensitization. Information given is based on data obtained from similar substances. Species: Mouse Result: Does not cause respiratory sensitization. Classification: Does not cause respiratory sensitization. Information given is based on data obtained from similar substances.
Zinc oxide	:	Maximisation Test Species: Guinea pig Result: Does not cause skin sensitization. Classification: Does not cause skin sensitization. Method: OECD Test Guideline 406
Additive	:	Species: Guinea pig Result: Does not cause skin sensitization. Classification: Does not cause skin sensitization. Method: OECD Test Guideline 406
Germ cell mutagenicity		
Aluminium (stabilized)	:	Weight of evidence does not support classification as a germ cell mutagen. Overall weight of evidence indicates that the substance is not mutagenic. Information given is based on data obtained from similar substances.

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- Zinc oxide : Weight of evidence does not support classification as a germ cell mutagen. Overall weight of evidence indicates that the substance is not mutagenic.
- Additive : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

- Aluminium (stabilized) : No evidence of carcinogenicity in animal studies. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

Reproductive toxicity

- Aluminium (stabilized) : Reproductive toxicity: No toxicity to reproduction. Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances. Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

- Zinc oxide : Reproductive toxicity: Weight of evidence does not support classification for reproductive toxicity. Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity. Information given is based on data obtained from similar substances. Teratogenicity: Animal testing showed no developmental toxicity.

- Additive : Reproductive toxicity: No toxicity to reproduction. Animal testing showed no reproductive toxicity. No effects on or via lactation. Information given is based on data obtained from similar substances. Teratogenicity: Animal testing showed no developmental toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

- Aluminium (stabilized) : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Zinc oxide : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Additive : Target Organs: Respiratory system. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Specific target organ toxicity - repeated exposure

- Aluminium (stabilized) : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Zinc oxide : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Additive : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

- Aluminium (stabilized) : No aspiration toxicity classification
- Zinc oxide : No aspiration toxicity classification

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Other

- Aluminium (stabilized) : Repeated dose toxicity:
 Ingestion/Rat 28 d
 NOAEL: 200 mg/kg
 LOAEL: 1,000 mg/kg
 Method: OECD Test Guideline 422
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Information given is based on data obtained from similar substances.
 Inhalation/Rat 90 d dust/mist
 LOAEL: 50 mg/m³,
 Method: OECD Test Guideline 413
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Information given is based on data obtained from similar substances.
- Zinc oxide : Repeated dose toxicity:
 Inhalation/Rat 90 d dust/mist
 Method: OECD Test Guideline 413
 No toxicologically significant effects were found.
 Skin contact/Rat 28 d
 Method: OECD Test Guideline 410
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
- Additive : Repeated dose toxicity:
 Ingestion/Rat 90 d
 NOAEL: 2,000 mg/kg
 Method: OECD Test Guideline 408
 No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
 Inhalation/Mouse 28 d vapour
 NOAEL: 50 ppm,
 Method: OECD Test Guideline 412
 No toxicologically significant effects were found.

Section 12 - Ecological Information**Ecotoxicity effects**

Acute and prolonged toxicity to fish

- Aluminium (stabilized) : LC50/96 h/Salmo trutta (brown trout): > 0.08 mg/l
 Method: OECD Test Guideline 203
 No acute toxicity effects at concentrations up to the limit of aqueous solubility
- Zinc oxide : LC50/96 h/Danio rerio (zebra fish): 1.55 mg/l
- Additive : LC50/96 h/Danio rerio (zebra fish): > 245 mg/l
- Toxicity to aquatic plants
- Aluminium (stabilized) : EC50/72 h/Raphidocelis subcapitata (freshwater green alga): > 0.044 mg/l

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	Method: OECD Test Guideline 201
	No acute toxicity effects at concentrations up to the limit of aqueous solubility
	NOEC/72 h/Raphidocelis subcapitata (freshwater green alga): > 0.044 mg/l
	Method: OECD Test Guideline 201
	No chronic toxicity effects were observed at concentrations up to the limit of aqueous solubility.
Zinc oxide	: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.136 mg/l
	Method: OECD Test Guideline 201
	NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.024 mg/l
Additive	: EC50/72 h/Pseudokirchneriella subcapitata (green algae): > 100 mg/l
	Method: OECD Test Guideline 201
	NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 100 mg/l
	Method: OECD Test Guideline 201
Acute toxicity to aquatic invertebrates	
Aluminium (stabilized)	: LC50/48 h/Daphnia magna (Water flea): > 0.135 mg/l
	Method: OECD Test Guideline 202
	No acute toxicity effects at concentrations up to the limit of aqueous solubility
Zinc oxide	: EC50/48 h/Daphnia magna (Water flea): 0.481 mg/l
	Method: OECD Test Guideline 202
Additive	: EC50/48 h/Daphnia magna (Water flea): > 844 mg/l
	Method: OECD Test Guideline 202
Chronic toxicity to fish	
Aluminium (stabilized)	: NOEC/7 d/Pimephales promelas (fathead minnow): 56.48 mg/l
	Information given is based on data obtained from similar substances.
Zinc oxide	: NOEC/32 d/Danio rerio (zebra fish): > 0.54 mg/l
	Method: OECD Test Guideline 210
Chronic toxicity to aquatic Invertebrates	
Zinc oxide	: NOEC/21 d/Daphnia magna (Water flea): 0.058 mg/l
Persistence and degradability	
Aluminium (stabilized)	: Result: Not biodegradable
	Not applicable
Zinc oxide	: The methods for determining biodegradability are not applicable to inorganic substances.
Additive	: Result: Biodegradable
	Readily biodegradable.
	Exposure time: 28 d
	Biodegradation: 98 %
Bioaccumulation	
Aluminium (stabilized)	: Bioaccumulation is unlikely.
Mobility in soil	
	No information available.
Other adverse effects	
	No information available.

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Section 13 - Waste Disposal

- Waste disposal methods** : Dispose of in accordance with local regulations. This material and its container must be disposed of in a safe way. Dispose of contents/container to an approved waste disposal plant in accordance with local, regional and national legislations. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Contaminated packaging** : Since empty containers 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.

Section 14 - Transport Information

China Dangerous Goods Regulation

- UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Zinc oxide)
Class : 9
Packing group : III

IMDG

- UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(氧化锌)
(Zinc oxide)
Transport hazard class : 9
Packing group : III
Marine pollutant : yes

IATA

- UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(氧化锌)
(Zinc oxide)
Transport hazard class : 9
Packing group : III
- Matters needing attention for transportation : Not applicable

Section 15 - Regulatory Information

Catalogue of Hazardous Chemicals: Not listed
Regulation on the Safety Management of Hazardous Chemicals
Production Safety Law of the People's Republic of China
Environmental Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution
Marine Environment Protection Law of the People's Republic of China
Fire Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes

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Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)
General rule for classification and hazard communication of chemicals (GB13690)
Lists of Dangerous Goods (GB12268)
Dangerous goods classification (GB6944)
General rules for the hazardous chemicals warehouse storage (GB15603)
Packaging Symbols of Dangerous Goods (GB190)
National Hazardous Waste Inventory
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease

Section 16 - Other Information**References**

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Significant change from previous version is denoted with a double bar.

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