

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Expander Grease
Product code 4932-3527-26

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Grease
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

1.3 Details of the supplier of the safety data sheet

Supplier *GuangZhou BeiTai Petrochemical CO. LTD*
No. 87, Dongpu Road, Tianhe District, Guangzhou, Guangdong, China.

E-mail address Tel: +020 32012337
belube@belube.cn

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No 1907/2006, 1272/2008

The product is not classified as dangerous according to Regulation (EC)No 1907/2006,1272/2008 and its amendments.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

Risk phrases This product is not classified according to EU legislation.

Safety phrases Not applicable.

Supplemental label elements Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Other hazards which do not result in classification Defatting to the skin.

Long term exposure to sensitive physique can cause skin redness, allergy and itching.

SECTION 3: Composition/information on ingredients

Substance/Mixture Mixture

Lubricant and additives. Thickening agent

Components	Concentration (%)	CAS. NO.	Regulation(EC)No.1272/2008(LCP)
Molybdenum disulfide	40~50	1317-33-5	Not classified
Mineral oil	5~15	64742-54-7	Not Classified
Petrolatum	30~40	8009-03-8	Not Classified
Lubricating additives	1~10	-	Not Classified

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures****Eye contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media

Do not use water jet.

5.2 Special hazards arising from the substance or mixture**Hazards from the substance or mixture**

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

Combustion products may include the following:
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal attention

Respiratory protection

Normal operation needs no protection, but the workplace should be well ventilated or partially exhausting, and respirator can also be used.

Eye protection

Normal operation needs no protection, and protective glasses can also be used.

Body protection

Normal operation without protection.

Hand protection

Industrial gloves.

6.2 Environmental precautions

Use sufficient ventilation.

6.3 Emergency strain of leakage

Collect spillover, cover and absorb with sand, soil or other material, reduce inhalation steam and contact skin as far as possible, open doors and windows, spillover should be prevented from drains through dike, such as product has entered sewer, comply with relevant regulations to inform the environmental management department.

SECTION 7: Handling and storage

7.1 Management

When opening the container, avoid inhaling steam. When it is not used, the container is closed. Do not drain into the drains or environment, and deal with the designated waste collection points. Use the appropriate seal to avoid environmental pollution. Avoid breathing dust, smoke, gas, spray, steam or spray. Rinse thoroughly after treatment. Empty containers contain residue of products, which may indicate the danger of products.

7.2 Storage

Ventilation, shade, drying and heat source and potential fire source (flame) isolation and seal.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits OSHA PEL<5mg/m³ ACGIH STEL<10mg/m³

8.2 Personal protective equipment

Respiratory protection

Under normal use, no respirator is usually needed. If we exceed the recommended exposure limit, we can use the dust / fog mask. Enter the closed space, Other self ventilation devices should be provided when other places are not well ventilated and large-scale places to clear spills.

Eye protection

Normal operation needs no protection, and protective glasses can also be used.

Body protection

Long sleeved shirts are recommended. Don't wear earrings, watches or similar clothes that can intercept substances and cause skin reactions. Wash the contaminated clothes before use.

Hand protection	Industrial gloves.
Others	If there is a potential exposure risk, take a safe shower or wash your eyes; do not smoke or retain smog in the process of producing too much fog. Wash your hands thoroughly before eating or smoking in the production area.
8.3 Health measures	Containing base oil, under possible fog conditions, we observed that OSHA PEL is 5 mg/m ³ and ACGIH STEL is 10 mg/m ³ .
8.4 Set up	Ventilation equipment
8.5 Ventilation equipment	Adequate ventilation system should be provided, and fresh air should be supplied to replenish the air drawn from the exhaust system. It should be insulated from heat sources and potential fire sources, such as flames and sparks.
8.6 Precautions for operation and storage	<p>Handling note: the ambient temperature is below 40 degrees Celsius, and can not pierce or damage the packing barrel.</p> <p>Storage attention: storage environment is below 40 degrees Celsius, ventilation, shade, drying and heat source and potential fire source (flame) isolation and seal.</p> <p>Use attention: avoid fireworks and open fire.</p>
8.7 Personal hygiene	Minimize contact with the skin.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Grease
Colour	Black.
Odour	Mild
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Drop Point	Not available.
Flash point	Open cup: >200°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available
Vapour density	>1.1
Relative density	Not available.
Density	Not available.
Solubility(ies)	insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.

Oxidising properties Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous polymerisation will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	No specific data.
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on the likely routes of exposure Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

Ingestion No known significant effects or critical hazards.

Skin contact May cause skin dryness and irritation.

Eye contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

Ingestion No specific data.

Skin contact Adverse symptoms may include the following:

irritation

dryness

cracking

Eye contact No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards Not classified as dangerous

12.2 Persistence and degradability

Expected to be biodegradable.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) Not available.

Mobility Non-volatile. Grease insoluble in water.

12.5 Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

12.6 Other adverse effects No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste Yes.

European waste catalogue (EWC)

Waste code	Waste designation
12 01 12*	spent waxes and fats

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Methods of disposal Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Recycle, if possible.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by dangerous substances

Special precautions This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Other regulations

REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

United States inventory

All components are listed or exempted.

(TSCA 8b)	
Australia inventory (AICS)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	Not determined.
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	Not determined.
Philippines inventory (PICCS)	Not determined.
National regulations	
Social Security Code, Articles L 461-1 to L 461-7	Sécurité sociale : tableau 36
Reinforced medical surveillance	Applicable.

15.2 Chemical Safety Assessment This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of abbreviated H statements	Not applicable.
Full text of classifications [CLP/GHS]	Not applicable.
Full text of abbreviated R phrases	Not applicable.
Full text of classifications [DSD/DPD]	Not applicable.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.