



MSDS NO.: A001R2503040030
Creation Date: March 4, 2025

Applicant: Shandong Longxu Petrochemical Co., Ltd
Address: No. 1-201, 685-2 Beiyuan Street, Tianqiao District, Jinan City, Shandong Province

Sample information:

Sample name: Transformer oil

Model: /

Sample composition/raw material (supplied by client): Refer to section 3 of the MSDS "Composition/Information on Ingredient"

Edit period: From March 3, 2025 to March 4, 2025

Required service : As specified by the client, to edit Material Safety Data Sheet (MSDS) by the submitted sample information.

Summary : As specified by the client, This safety data sheet was prepared in accordance with Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Rev.10. Please refer to the attached report for details.

Signed for and on behalf of

Shanghai Changyin Testing Technology Co.,Ltd



Approved Signatory

Shanghai Changyin Testing Technology Co.,Ltd

Room 1018, V6 Times Business Building, No.16, Xinyuan Road, Anting Town, Jiading District, Shanghai
Tel:+86-021-69896603, Fax:+86-021-69896603 E-mail:qtc@changyin-lab.com, www.changyin-lab.com

Material Safety Data Sheet

(MSDS)

In accordance with GHS Rev. 10.

Section 1 - Chemical Product and Company Identification

1.1 Product Identification:

Product Name: Transformer oil
Product Model: /

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

Identified uses: Transformer oil
Use advised against: No data available.

1.3 Details of the Manufacture or supplier

Manufacture: Shandong Longxu Petrochemical Co., Ltd
Address: No. 1-201, 685-2 Beiyuan Street, Tianqiao District, Jinan City, Shandong Province
Telephone: +86-13688617122
Email: 734628109@qq.com

1.4 Emergency telephone number

Emergency Telephone: +86-13688617122

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

This product is not classified according to the GHS (The Globally Harmonized System of Classification and Labelling of Chemicals).

2.2 GHS Label elements, including precautionary statements

Pictogram(s): No pictogram is used.
Signal Word: No signal word is used.
Hazard Statement: No hazard statement.
Precautionary statements : No precautionary statement.

2.3 Description of any hazards not otherwise classified

No additional information available.

Section 3 - Composition/Information on IngredientSubstance () Preparation () Article ()

Composition:

Chemical name	CAS No.	Content (%)
Hydrotreating light naphthenic fractions	64742-53-6	>99.6%
2,6-Di-tert-butyl-p-cresol	128-37-0	<0.4%

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

Section 4 - First Aid Measures**4.1 Description of first aid measures:****Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.**Skin Contact:** Wash off with soap and plenty of water.**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Dust in throat and nasal passages should clear spontaneously. Contact a physician if discomfort.**Ingestion:** If the person is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Consult a physician and get medical attention if discomfort or largely ingested.**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 -Extinguishing media**5.1 Extinguishing media****Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide or sand.**5.2 Special hazards arising from the substance or mixture**

Non flammable and explosive dangerous goods.

5.3 Advice for firefighters

Evacuate personnel to safe areas. As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting. Move container away from fire area if safe. Fight fire in upwind. Use water fog to cool down containers until extinguished.

5.4 Further information

No data available.

Section 6 - Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions:

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. For disposal see section 13.

Section 7 - Handling and Storage

7.1 Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

Wear suitable personal protective equipment in section 8.

Avoid inhaling dust and aerosols. Avoid contact with skin and eyes.

Wash thoroughly after handling. Do not eat, drink or smoke at the workplace.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from foodstuffs. Do not store together with strong oxidizing agent. Keep away from fire and heat.

Section 8 - Exposure Controls, Personal Protection

8.1 Exposure Limits: No data available.

8.2 Exposure controls

Engineering Control: General industrial hygiene practice. Provide appropriate exhaust ventilation at places where dust is formed and bulk storage.

Personal protective equipment:

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components

	tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eyes Protection:	Not required under normal usage. Use face shield and safety glasses if in-eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection:	In production, use normal work suit is enough.
Hands Protection:	Suggest wear suitable protective gloves to avoid skin exposure.
Other Protections:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Viscous liquid
Color	Colorless transparent
Odor	Odorless
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	142°C (Closed cup)
Evaporation rate	Not applicable as not a liquid.
Flammability	Not flammable.
Upper explosive limit %(V/V)	Not available.
Lower explosive limit %(V/V)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	875 kg/m ³
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	40°C 9.2 mm ² /s

Section 10 - Stability and Reactivity

10.1 Stability: Stable under normal storage temperature and pressure.

10.2 Conditions to Avoid: Extremes of temperature, flames and mars.

10.3 Incompatible materials: Strong oxidizing agents.

10.4 Hazardous Decomposition Products: Other decomposition products- no data available. In the event of fire:see section 5.

10.5 Possibility of hazardous reactions: None hazardous reactions known under normal condition.

Section 11 - Toxicological Information

Acute Toxicity:	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious Eye Damage/Eye Irritation :	Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitization	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity :	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the European Directive (67/548/EEC).
Reproductive Toxicity :	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Potential Health Effects:	None.
Inhalation:	Normally there are no obvious symptoms or effects.
Skin Contact:	Normally there are no obvious symptoms or effects.
Eye Contact:	Normally there are no obvious symptoms or effects.
Ingestion:	Normally there are no obvious symptoms or effects.

Section 12 - Ecological Information

12.1 Toxicity

ADR/RID/ADN, IMO/IMDG, IATA

14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex 1 of Marpol and the IBC Code	Not applicable.
14.8 Transport/Additional information:	Not dangerous according to the above specifications.
UN 'Model Regulation':	Not applicable.

Section 15 - Regulatory Information

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

No data available.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

16.1 Reference

- | | | |
|-----|--|--|
| [1] | IPCS:The International Chemical Safety Cards (ICSC) | website: http://www.ilo.org/dyn/icsc/showcard.home |
| [2] | EU REACH Registered Substance Database | website: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances |
| [3] | OECD: The Global Portal to Information on Chemical Substances, | website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en |
| [4] | CAMEO Chemicals, | website: http://cameochemicals.noaa.gov/search/simple |
| [5] | NLM:ChemIDplus, | website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp |
| [6] | EPA: Integrated Risk Information System, | website: http://cfpub.epa.gov/iris/ |
| [7] | U.S. Department of Transportation:ERG, | website: http://www.phmsa.dot.gov/hazmat/library/erg |
| [8] | Germany GESTIS-database on hazard substance | website: http://gestis-en.itrust.de/ |
| [9] | IARC | website: http://www.iarc.fr/ |

16.2 Abbreviations and acronyms

PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average

IARC	International Agency for Research on Cancer
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMO	International Maritime Organization
IMDG	The International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
UN	The United Nations
NTP	National Toxicology Program
ACGIH	The American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health

16.3 Disclaimer

-This safety data sheet was prepared in accordance with UN GHS Rev.10.

-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

16.4 Information on revision

MSDS Creation Date: March 4, 2025

MSDS Revision Date: -

Reason For Revision: -

MSDS Edition: 1.0

End of MSDS