

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

L-TSA 32 Turbine Oil

Version 1.0 Issue date: 06/11/2020 Revision date: 06/11/2020

SDS record number: CSSS-TCO-010-141155

1. Product and Company Identif	ication
Material name	L-TSA 32 Turbine Oil
CAS #	See section 3
Product code	60196306
Product use	Suitable for lubrication and sealing of turbine installed in power plants or in othe industrial uses.
Manufacturer/Supplier	
Supplier(Manufacturer):	SINOPEC LUBRICANT CO., LTD.
Address:	No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China
Contact person(E-mail):	csc.lube@sinopec.com
Telephone:	00-86-95388-3
Fax:	86-10-82410856
Emergency telephone Number:	00-86-95388-3
2. Hazards identification	
GHS classification	
Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified
GHS label elements	
Hazard Pictograms	No hazard pictogram is used.
Signal word	No signal word is used.
Hazard statement	Not applicable.
Precautionary statement	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Other hazards	Not available.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Highly refined mineral oil (C15 – C50)	64742-44-5, 64742-55-8	95 – 99% weight	
Alkyl diphenylamine	68411-46-1	<0.5% weight	

4. First Aid Measures

First aid procedures

-	
Eye contact	No specific first aid measures are required. As a precaution, remove contact
	lenses, if worn, and flush eyes with water.
Skin contact	No specific first aid measures are required. As a precaution, remove clothing and
	shoes if contaminated. To remove the material from skin, use soap and water.
	Discard contaminated clothing and shoes or thoroughly clean before reuse.

Inhalation

Ingestion

Notes to physician

5. Fire Fighting Measure

Flammable properties

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media Firefighting equipment/instructions

Hazardous combustion products

6. Accidental Release Measures

Personal precautions

Environmental precautions Methods for cleaning up

7. Handling and Storage

material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice. Treat symptoms.

No specific first aid measures are required. If exposed to excessive levels of

Not available.

Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Not available.

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Carbon monoxide, carbon dioxide, and unidentified organic compounds.

Eliminate all sources of ignition in vicinity of spilled material.

Do not let product enter drains.

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner

or disposed of properly.

Storage

Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form			
Highly refined mineral oil (C15	PEL	5 mg/m3	Mist.			
– C50) (CAS 64742-55-8)						
US. ACGIH Threshold Limit Va	lues					
Components	Туре	Value	Form			
Highly refined mineral oil (C15	TWA	5 mg/m3	Inhalable fraction.			
– C50) (CAS 64742-44-5)						
Highly refined mineral oil (C15	TWA	5 mg/m3	Inhalable fraction.			
– C50) (CAS 64742-55-8)						
US. NIOSH: Pocket Guide to C	hemical Haz	ards				
Components	Туре	Value	Form			
Highly refined mineral oil (C15	STEL	10 mg/m3	Mist.			
– C50) (CAS 64742-55-8)						
	TWA	5 mg/m3	Mist.			
Biological limit values		No biological exposure limits noted for th	e ingredient(s).			
Appropriate engineering contr	ols:	Handle in accordance with good industria	al hygiene and safety practice. Wash			
		hands before breaks and at the end of workday.				
Individual protection measures	s, such as p	ersonal protective equipment:				
Eye / face protection		No special eye protection is normally required. Where splashing is possible, wea				
		safety glasses with side shields as a goo	d safety practice.			
Skin protection		No special protective clothing is normally required. Where splashing is possible				
		select protective clothing depending	g on operations conducted, physic			
		requirements and other substances in	the workplace. Suggested materials for			
		protective gloves include: Neoprene, Nitr	ile Rubber.			
Respiratory protection		No respiratory protection is normally required. No respiratory protection is ordinarily				
		required under normal conditions of u	use. In accordance with good industria			
		hygiene practices, precautions should b	be taken to avoid breathing of material.			
		user operations generate an oil mist,	determine if airborne concentrations ar			
		below the occupational exposure limit fo	r mineral oil mist. If not, wear an approve			
		respirator that provides adequate protect	tion from the measured concentrations of			
		this material. For air-purifying respirators	use a particulate cartridge. Use a positiv			
		pressure air-supplying respirator in circ	umstances where air-purifying respirator			
		may not provide adequate protection.				
General hygiene		Wash hands, forearms and face thoroug	hly after handling chemical products,			
considerations		before eating, smoking and using the lav	atory and at the end of the working period			
9. Physical & Chemical P	roperties					
Appearance	-					

Form Color Liquid Yellow to Brown

Odor	Petroleum odor
Odor threshold	Not available
рН	Not available
Vapor pressure	<0.01 mmHg Maximum @ 37.8 °C(100 °F)
Vapor density	>1 Minimum
Boiling point	Not available
Melting point/Freezing point	Not available
Solubility (water)	Soluble in hydrocarbon solvents; insoluble in water.
Density	0.84-0.91 kg/l @15°C (59°F) (Typical)
Flash point	(Cleveland Open Cup) 210 °C (410 °F) Minimum
Partition coefficient	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
VOC	Not available
Percent volatile	Not available
Molecular Formula	Not available
Molecular Weight	Not available
Other data	
Viscosity	28.8 mm2/s @ 37.8°C (100°F) Minimum
Dissociation constant	Not available
Pour Point:	Not available
10. Chemical Stability & Reactivity Info	ormation
Reactivity	The substance is stable under normal storage and handling conditions.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Heat. Hot surfaces. Flames.
Incompatible materials	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates,
	peroxides, etc.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, and unidentified organic compounds.
Possibility of hazardous reactions	No hazardous reactions known.
11. Toxicological Information	
Toxicokinetics, metabolism and distribution	on:
Non-human toxicological data:	Not available
Information on toxicological effects:	
Acute toxicity:	
Highly refined mineral oil (CAS 64742-44-5)	
LD50(Oral, Rat):	> 5 000 mg/kg bw
LD50(Dermal, Rabbit):	> 5 000 mg/kg bw
LC50(Inhalation, Rat):	> 5.53 mg/L air 4h
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified

STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12. Ecological Information

Toxicity:

Highly refined mineral oil (CAS 64742-44-5)

	Acute toxicity		Time	Species	Method	Evaluation	Remarks		
	LL50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A		
	EL50	> 10 000 mg/L	48h	Daphnia	OECD 202	N/A	N/A		
	EC50	N/A	72h	Algae	OECD 201	N/A	N/A	l 	
Persistence	e and degr	adability:			expected to be re			-	
					d on an evaluatio	n of data for th	ie components	or a si	
Discourse	lative net		materia						
Bioaccumu	-	ential:	Not ava						
Mobility in) accomment.	Not ava						
		assessment:	Not ava						
Other adve			Not ava	allable.					
13. Dispo	sal Con	siderations							
Disposal in	structions	;	Dispos	e of	contents/cor	ntainer ir	n accord	ance	
			local/re	gional/nation	al/international re	egulations.			
Contaminat	ted packag	ging	Since e	Since emptied containers may retain product residue, follow label warnings					
			after co	ontainer is em	ptied.				
14. Trans	port Info	ormation							
DOT									
		equirements:							
UN nur			Not reg						
-	Proper shipping name		-	Not regulated					
Hazard				Not regulated					
	g group		Not reg	julated					
	nmental ha	azards	No						
ΙΑΤΑ									
UN nur			Not reg						
	per shippi		Not reg						
-		l class(es)	Not reg						
	g group	_	Not reg	julated					
	nmental ha	azards	No						
IMDG									
UN nur			Not reg						
UN pro	per shippi		Not reg						
	ort hazard	l class(es)	Not reg	Not regulated					
-									
Packin	g group nmental ha		Not reg No	julated					

US federal regulations

Toxic Substances Control Act (TSCA)				
Toxic Substances Control Act (TSCA)	an (40 CED 707 Subat D)			
TSCA Section 12(b) Export Notification	5h (40 CFR 707, Subpt. D)			
CERCLA Hazardous Substance List (40				
Not listed.	GFK 302.4)			
SARA 304 Emergency release notificatio	n			
Not regulated.	M1			
OSHA Specifically Regulated Substance	c (20 CEP 1010 1001 1052)			
. , .	S (29 CFR 1910.1001-1055)			
Not regulated.				
Superfund Amendments and Reauthorization				
SARA 302 Extremely hazardous substan				
Not listed. SARA 311/312 Hazardous chemical				
	No			
SARA 313 (TRI reporting)	Not regulated.			
Other federal regulations				
Clean Air Act (CAA) Section 112 Hazardo				
Not regulated.	Jonal Balance Brovention (40 CEP 69 120)			
	lental Release Prevention (40 CFR 68.130)			
Not regulated.	Not regulated			
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65	t Safar Canaumar Braduata Bagulatiana (Cal. Cada Baga tit 22 60502.2			
	t. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,			
subd. (a))				
Highly refined mineral oil (C15 – C50) (CAS 64742-44-5) Highly refined mineral oil (C15 – C50) (CAS 64742-55-8)				
	5 047 42-55-6)			
16. Other Information				
HMIS®ratings	Health: 1			
	Flammability: 1			
	Physical hazard: 0			
NFPA ratings	Health: 1 Flammability: 1			
	Instability: 0			
Disclaimer	The information in the sheet was written based on the best knowledge and			
	experience currently available.			

Issue date

06-11-2020