

SAFETY DATA SHEET

Revision date: 2022-09-22

Version: R0002.0002

1. IDENTIFICATION

- A. Product name** : SK ZIC DEXRON(r) LV Gear Oil, SAE 75W-85
ACDelco DEXRON(r) LV Gear Oil, SAE 75W-85
- B. Recommended use and restriction on use**
- **General use** : Lubricants for rear and front axles, differential gears
 - **Restriction on use** : Not available
- C. Manufacturer / Supplier / Distributor information**
- Manufacturer information**
- **Company name**
 - : Global HQ : SK Lubricants Co., Ltd
 - : Americas Region : SK Lubricants Americas Inc.
 - **Address**
 - : Global HQ : 26 Jongro, Jongro-gu, Seoul, Korea
 - : Americas Region : 11700 Katy Freeway, Suite 900, Mailbox 121, Houston TX 77079
 - **Dept.**
 - **Telephone number** :
 - **Emergency telephone number** : International number : +1-703-527-3887 CHEMTREC (Collect calls accepted)
: North America number : +1-800-424-9300 CHEMTREC
- Supplier/Distributor information**
- **Company name** : Distributed by ACDelco
 - **Address** : Detroit, MI 48265
 - **Emergency telephone number** : +1-800-223-3526

2. HAZARD IDENTIFICATION

- A. GHS Classification**
- Not applicable
- B. GHS label elements**
- Hazard symbols**
 - Not applicable
 - Signal words**
 - Not applicable
 - Hazard statements**
 - Not applicable
 - Precautionary statements**
 - 1) **Prevention**
 - Not applicable
 - 2) **Response**
 - Not applicable
 - 3) **Storage**
 - Not applicable
 - 4) **Disposal**
 - Not applicable
- C. Other hazards which do not result in classification : (NFPA Classification)**
- NFPA grade (0 ~ 4 level)**
 - Health : 0, Flammability : 1, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	%[weight]
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Amines, C12-14-tert-alkyl, 2- [[bis(1,3-dimethylbutoxy)phosphinothioyl]t hio]methylethyl phosphates		141904-03-2	>=0.5, < 1.5
Distillates (petroleum), hydrotreated heavy paraffinic	Emulsifiable oil	64742-54-7	>=30, < 40
Distillates (petroleum), hydrotreated light paraffinic	Mineral oil, petroleum distillates, hydrotreated (severe) light paraffinic	64742-55-8	>=35, < 45
Di-tert-butyl polysulfides		68937-96-2	>=0.5, < 1.5

4. FIRST AID MEASURES

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.

C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

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

- Not available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

B. Specific hazards arising from the chemical

- Not available

C. Special protective actions for firefighters

- Notify your local firestation and inform the location of the fire and characteristics hazard.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.
- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Move container to safe area from the leak area.
- Do not direct water at spill or source of leak.

B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.

- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Since emptied containers retain product residue (vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Avoid contact with incompatible materials.
- Get the manual before use.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.

B. Conditions for safe storage, including any incompatibilities

- Check regularly for leaks.
- Do not use damaged containers.
- Do not apply any physical shock to container.
- Keep in the original container.
- Keep sealed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

○ ACGIH TLV

- [Distillates (petroleum), hydrotreated light paraffinic] : TWA 5 mg/m³, Inhalable particulate matter (Mineral oil, Pure, highly and severely refined)
- [Distillates (petroleum), hydrotreated heavy paraffinic] : TWA 5 mg/m³, Inhalable particulate matter (Mineral oil, Pure, highly and severely refined)

○ OSHA PEL

- Not available

B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

C. Individual protection measures, such as personal protective equipment

○ Respiratory protection

- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.

○ Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

○ Hand protection

- Wear appropriate glove.

○ Skin protection

- Wear appropriate clothing.

○ Others

- Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance

- **Appearance** : Liquid (Oil)
- **Color** : Brown (Light)

B. Odor

: Light petroleum odor

C. Odor threshold	: Not available
D. pH	: Not available
E. Melting point/Freezing point	: Not available
F. Initial Boiling Point/Boiling Ranges	: Not available
G. Flash point	: 180 °C (COC)
H. Evaporation rate	: Not available
I. Flammability(solid, gas)	: Not available
J. Upper/Lower Flammability or explosive limits	: Not available
K. Vapour pressure	: Not available
L. Solubility	: Not available
M. Vapour density	: Not available
N. Specific gravity(Relative density)	: 0.855 at 60°F(15.6°C)
O. Partition coefficient of n-octanol/water	: Not available
P. Autoignition temperature	: Not available
Q. Decomposition temperature	: Not available
R. Viscosity	: 75 mm ² /s @ 40°C
S. Molecular weight	: Not available

10. STABILITY AND REACTIVITY

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

D. Incompatible materials

- Not available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

(Respiratory tracts)

- Not available

(Oral)

- Not available

(Eye-Skin)

- Not available

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

Acute toxicity

* Oral

- Product (ATEmix) : >5000mg/kg
- [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 5000 mg/kg Rat (GLP, ECHA)
- [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rat (ECHA)
- [Di-tert-butyl polysulfides] : LD50 6500 mg/kg Rat

* Dermal

- Product (ATEmix) : >5000mg/kg
- [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 5000 mg/kg Rabbit (GLP, ECHA)
- [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 >5000 mg/kg Rabbit (ECHA)

* Inhalation

- Product (ATEmix) : Not available
- [Distillates (petroleum), hydrotreated light paraffinic] : LC50 >5.53 mg/l 4 hr Rat (ECHA)
- [Distillates (petroleum), hydrotreated heavy paraffinic] : Aerosol LC50 > 5.53 mg/L 4 hr, Rat, Read-across : CAS No. 64741-88-4 (ECHA)

Skin corrosion/irritation

- Not available

- **Serious eye damage/irritation**
- Not available
- **Respiratory sensitization**
- Not available
- **Skin sensitization**
- Not available
- **Carcinogenicity**
 - * **IARC**
- Not available
 - * **OSHA**
- Not available
 - * **ACGIH**
- Not available
 - * **NTP**
- Not available
 - * **EU CLP**
 - [Distillates (petroleum), hydrotreated light paraffinic] : Carc. 1B (Note L)
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc. 1B (Note L)

The classification as a carcinogen need not apply if it can be shown that the PCA(Polycyclic Aromatic Hydrocarbon) contains less than 3 %(DMSO extract as measured by IP 346). And PCA of those substance is under 3 %.
- **Germ cell mutagenicity**
- Not available
- **Reproductive toxicity**
- Not available
- **STOT-single exposure**
- Not available
- **STOT-repeated exposure**
- Not available
- **Aspiration hazard**
- Not available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- **Fish**
 - [Distillates (petroleum), hydrotreated light paraffinic] : LC50 5000 mg/l 96 hr Oncorhynchus mykiss (IUCLID)
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LL50 > 100 mg/L, 96hr, Pimephales promelas (ECHA)
 - [Di-tert-butyl polysulfides] : LC50 250 ~ 800 mg/l 96 hr Pimephales promelas (GLP, OECD TG 203) (IUCLID)
- **Crustaceans**
 - [Distillates (petroleum), hydrotreated light paraffinic] : EC50 1000 mg/l 48 hr Daphnia magna (IUCLID)
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EL50 > 10000 mg/L, 48hr, Daphnia magna (ECHA)
 - [Di-tert-butyl polysulfides] : EC50 1000 mg/l 48 hr Daphnia magna (GLP, OECD TG 202) (IUCLID)
- **Algae**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC25 1152.9 mg/L, 96hr, Pseudokirchneriella subcapitata, NOEL >= 100 mg/L, 72hr (ECHA)
 - [Di-tert-butyl polysulfides] : EbC50 20 ~ 39 mg/l 96 hr Selenastrum capricornutum (GLP, OECD TG 201) (IUCLID)

B. Persistence and degradability

- **Persistence**
 - [Distillates (petroleum), hydrotreated light paraffinic] : log Kow 3.9 ~ 6 (Estimate)
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : log Pow = 1.99 ~ 18.02 (20°C) (ECHA)
 - [Di-tert-butyl polysulfides] : log Kow 6 (IUCLID, SIDS)
- **Degradability**
- Not available

C. Bioaccumulative potential

- **Bioaccumulative potential**
- [Di-tert-butyl polysulfides] : BCF 4500 ~ 42600 (Has the potential bioaccumulation) (SIDS)

○ **Biodegradation**

- [Distillates (petroleum), hydrotreated light paraffinic] : 6 (%) 28 day (Aerobic, Domestic wastewater, does not decompose easily)
- [Di-tert-butyl polysulfides] : 82 (%) 28 day (OECD TG 301G, Degradation in vivo accumulation potential to be so well Low) (SIDS)

D. Mobility in soil

- [Di-tert-butyl polysulfides] : Koc 9816 (Can be adsorbed in the soil)

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

B. Special precautions for disposal

- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- Not applicable

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG CODE/IATA DGR Packing group

- Not applicable

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not Available
- EmS SPILLAGE SCHEDULE : Not Available
- Air transport(IATA): Not subject to IATA regulations.

15. REGULATORY INFORMATION

A. National and/or international regulatory information

○ **POPs Management Law**

- [Di-tert-butyl polysulfides] : Not applicable

○ **Information of EU Classification**

*** Classification**

- [Distillates (petroleum), hydrotreated light paraffinic] : H350
- [Distillates (petroleum), hydrotreated heavy paraffinic] : H350

The classification as a carcinogen need not apply if it can be shown that the PCA(Polycyclic Aromatic Hydrocarbon) contains less than 3 %(DMSO extract as measured by IP 346). And PCA of those substance is under 3 %.

○ **U.S. Federal regulations**

*** OSHA PROCESS SAFETY (29CFR1910.119)**

- [Di-tert-butyl polysulfides] : Not applicable

*** CERCLA Section 103 (40CFR302.4)**

- [Di-tert-butyl polysulfides] : Not applicable

* **EPCRA Section 302 (40CFR355.30)**
- [Di-tert-butyl polysulfides] : Not applicable

* **EPCRA Section 304 (40CFR355.40)**
- [Di-tert-butyl polysulfides] : Not applicable

* **EPCRA Section 313 (40CFR372.65)**
- [Di-tert-butyl polysulfides] : Not applicable

Rotterdam Convention listed ingredients
- [Di-tert-butyl polysulfides] : Not applicable

Stockholm Convention listed ingredients
- [Di-tert-butyl polysulfides] : Not applicable

Montreal Protocol listed ingredients
- [Di-tert-butyl polysulfides] : Not applicable

16. OTHER INFORMATION

A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

B. Issue date : May 31, 2018

C. Revision number and Last date revised Revision number : 1

Last date revised : Sep 22, 2022

D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).