



19300457,19300458,19367024,19420402,
19421099, 88866023 ACDelco Rear Axle
Lubricant High Efficiency SAE 75W-85

SAFETY DATA SHEET

According to US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date: Feb. 19. 2024

SECTION 1: IDENTIFICATION

Product Name

SAE 75W-85 AAM Powerfilm® Gear Oil, P/N 40066893

Recommended use and restriction on use

Use of the Substance/Mixture : Gear oil
Uses advised against : Use only for Lubricants

Supplier's details

Supplier

Name : SK Enmove Americas Inc.
Address : 11700 Katy Freeway Suite 1200, Houston, TX 77079, USA
Information Contac: : +1-859-625-8201
E mail : j.presley@skenmove.com

Emergency telephone numbers

+1-859-625-8201

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200

- Serious Eye Damage/Eye Irritation : Category 2A

Label elements

Hazard symbols



Signal words

Warning

Hazard statements

H319 Causes serious eye irritation

Precautionary statements

- | | |
|---------------|--|
| 1) Prevention | P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| 2) Response | P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| 3) Storage | Not applicable |
| 4) Disposal | Not applicable |

Hazards not otherwise classified (HNOC):

Environmental hazards

Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description of the mixture:

- Hydrocarbon lubricating base oil with functional additives

Hazardous ingredients:

Substance Name	CAS No.	Concentration (wt%)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	>=40, < 50
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>=20, < 30

Di-tert-butyl polysulfides	68937-96-2	>=1, < 5
Mineral oil	-	>=1, < 5

The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742-55-8, and 64742-56-9.

Other ingredients are either not hazardous or are below the regulatory disclosure limit.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4: FIRST AID MEASURES

Description of first aid measures

First-aid measures general

- No general information.

First-aid measures after inhalation

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

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.

Eye Contact

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

Ingestion

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

Most important symptoms and effects, both acute and delayed

Not available

Indication of any immediate medical attention and special treatment needed

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

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

Unsuitable extinguishing media

- Avoid use of water jet for extinguishing

Special hazards arising from the substrate or mixture

Hazardous combustion products

- Not available

Advice for fire-fighters

- Move containers from fire area if you can do without the risk.
- Keep unauthorized personnel out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Notify your local fire station and inform the location of the fire and characteristics hazard.
- Keep containers cool with water spray.
- Use firefighting procedures suitable for surrounding area.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel

- Protective equipment: Wear proper protective equipment.
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to all applicable regulations.

For emergency responders- Ventilate closed spaces before entering.

- Must work against the wind, let the upwind people to evacuate.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Do not direct water at spill or source of leak.

Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.
- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

Methods and material for containment and cleaning up

For containment

- Clear spills immediately
- Clean up all spills immediately.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, flame, or ignition sources.

For 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.
- Prevent the influx to waterways, sewers, basements, or confined spaces.

Other information

- Slippery when spilt.

Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Avoid direct physical contact.
- Since emptied containers retain product residue (vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Refer to Engineering controls and personal protective equipment.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.

Conditions for safe storage, including any incompatibilities

- Check regularly for leaks.
- Do not apply any physical shock to container.
- Keep sealed when not in use.
- No open fire.
- Prevent static electricity and keep away from combustible materials or heat sources.
- Store away from water and sewer.
- Collected them in sealed containers.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters**Occupational exposure limit values**

When mists/aerosols can occur, the following are recommended: 5mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL

Biological limit values

No biological limit allocated.

Exposure limit at intended use

- Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Exposure controls**Appropriate engineering controls**

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

personal protective equipment**Hand protection**

- Wear appropriate glove.

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.

Skin protection

- Wear appropriate clothing.

Respiratory Protection

- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.

Thermal hazards

- Not available

Others

- It is necessary to wear protective clothes and other protection equipment. Cover your face, head, and neck.
- Prior to removing protective garments, the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

Environmental exposure controls

- Do not let product enter drains. For ecological information refer to section 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance (State)	Liquid
Appearance (Color)	Amber
Odor	Mild petroleum odor
Odor threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	200 °C (392°F) (COC)
Evaporating Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	0.85 - 0.89 (15.6 °C (60.1 °F))
Solubility	Not available
Partition coefficient of n-octanol/water	Not available
Autoignition Temperature	572 °F (300 °C)

Decomposition Temperature	Not available
Viscosity	74 mm ² / s (40 ° C (104 ° F))
Explosives properties	Not available
Oxidising properties	Not available

Other information

- DMSO extract by IP346 : Less than 3.0 wt% (mineral oil component only)

SECTION 10: STABILITY AND REACTIVITY**Reactivity**

- Not available

Chemical stability

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

Possibility of Hazardous Reaction

- Hazardous Polymerization will not occur.

Conditions to avoid

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

Incompatible materials

- Strong acids. Strong oxidizing agents.

Hazardous decomposition products

- May emit flammable vapor if involved in fire. Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on the likely routes of exposure**

(Respiratory tracts)

- Not available

(Oral)

- Not available

(Eye Skin)

- Not available

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 (IUCLID)

Dermal

- Product (ATEmix) : 2000mg/kg < 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) : 2.0mg/L < ATEmix <= 10.0mg/L
- [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

- Causes serious eye irritation

Respiratory sensitization

- Not available

Skin sensitization

- [Di-tert-butyl polysulfides] May cause sensitization by skin contact. Remarks: Category 1B

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)
- It is not considered carcinogenic. it has been demonstrated to contain less than 3% extractables by the IP 346 test (EU CLP Note L)

Germ cell mutagenicity

- Not available

Reproductive toxicity

- Not available

STOT-single exposure

- Not available

STOT-repeated exposure

- Not available

Aspiration hazard

- Not available

SECTION 12: ECOLOGICAL INFORMATION

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)

Persistence and degradability

Persistence

- [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

Bioaccumulative potential

Bioaccumulative potential

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

Biodegradation

- [Di-tert-butyl polysulfides] : 82 (%) 28 day (OECD TG 301G, Degradation in vivo accumulation potential to be so well Low) (SIDS)

Mobility in soil

- Not available

Other adverse effects

- Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal recommendations based on material as supplied, Disposal must be in accordance with applicable laws and regulations, and material characteristics at time of disposal

For the safety of persons conducting disposal, recycling or reclamation activities, refer to the information in Section 8, Exposure control and personal protection.

Disposal recommendations

Product

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/ container to an approved waste disposal plant.

Empty Container

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, 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.

SECTION 14: TRANSPORTATION INFORMATION

LAND (US DOT) :

Not regulated for land transport

SEA (IMDG)

UN number or ID number: UN 3082
UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Alkenyl amine)
Transport Hazard Class(es)
Class: 9
Label(s): 9
Packing Group: III
Environmental Hazards: Marine Pollutant
Special precautions for user: None established

AIR (IATA)

UN number or ID number: UN 3082
UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Alkenyl amine)
Transport Hazard Class(es)
Class: 9
Label(s): 9MI
Packing Group: III
Environmental Hazards: Marine Pollutant
Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

Not applicable

SECTION 15: REGULATORY INFORMATION

U.S. Federal/State regulations**TSCA 12(b) - Notification of Export of Chemicals**

None of the components are listed.

OSHA HAZARD COMMUNICATION STANDARD

This material causes serious eye irritation in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

EPCRA -Emergency Planning and Community Right-to-Know Act

Not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Not contain any components with a section 302 EHS TPQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Not applicable

SARA 313

Not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

California Prop. 65

This product can expose you to chemicals including: Methyl isobutyl ketone (361.00PPB) Benzene (180.00PPT) which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.



This product can expose you to chemicals including: Ethyl acrylate (524.00PPB) Naphthalene (2.00PPB) Ethyl benzene (2.00PPB) which is [are] known to the State of California to cause cancer.



This product can expose you to chemicals including: Toluene (180.00PPT) which is [are] known to the State of California to cause birth defects or other reproductive harm.

Canadian regulations**Canada Significant New Activity Notice**

None of the components are listed.

Canadian NPRI

None of the components are listed.

CEPA Toxic substances

None of the components are listed.

International Inventory Status

DSL : All components are listed or exempted.

TSCA : All components are listed or exempted.

SECTION 16: OTHER INFORMATION

NFPA Hazard Codes	Health	Fire	Instability
	2	1	0
HMIS	Health Hazards	Flammability	Physical Protection
	2	1	0

Abbreviations and acronyms

DNEL : Derive no effects level

PNEC : Predicted no effect concentration

ATE : Acute toxicity estimate

LC50 : Lethal Concentration to 50 % of a test population

LD50 : Lethal Dose to 50% of a test population (Median Lethal Dose)

TWA : Time weighted average

Key literature references and sources for data

- This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB, ECHA, US Toxic Substances Control Act (TSCA), US California Proposition 65, US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication Standard)

Further information

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only.

It should not therefore be construed as guaranteeing any specific property of the product.