

SAFETY DATA SHEET

ACDelco FULL SYNTHETIC 5W30 dexos2 Motor Oil

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1. IDENTIFICATION

A. Product name

- ACDelco FULL SYNTHETIC 5W30 dexos2 Motor Oil

B. Recommended use and restriction on use

- General use : Engine Oil (Part No. 19354309)
- Restriction on use : Not available

C. Manufacturer / Supplier / Distributor information

o Manufacturer information

- Company name : SK Lubricants Americas Inc.
- Address : 11700 Katy Freeway, Suite 900, Mailbox 121, Houston TX 77079
- Emergency telephone : North America: (800) 424-9300 CHEMTREC
number : International: +1-703-527-3887 CHEMTREC (collect calls accepted)

o Supplier/Distributor information

- Company name : General Motors of Canada Company
- Address : 1908 Colonel Sam Drive, Oshawa, Ontario, Canada L1H 8P7 Ph
- Emergency telephone : +1-800-223-3526
number

2. HAZARD IDENTIFICATION

A. GHS Classification

- Not applicable

B. GHS label elements

o Hazard symbols

- Not applicable

o Signal words

- Not applicable

o Hazard statements

- Not applicable

o 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)

o NFPA grade (0 ~ 4 level)

- Health : 0, Flammability : 1, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
Distillates (petroleum), hydrotreated heavy paraffinic	Highly Refined Mineral Oil	64742-54-7	85-95

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.
- Laundering enough contaminated clothing before reuse.

C. Inhalation contact

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

D. Ingestion contact

- About whether I should induce vomiting Take the advice of a doctor.
- 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

- 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.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- 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.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Handling the damaged containers or spilled material after wearing protective equipment.
- 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

- Avoid direct physical contact.
- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Do not inhale the steam prolonged or repeated.

B. Conditions for safe storage, including any incompatibilities

- Do not apply direct heat.
- Do not apply any physical shock to container.
- Keep in the original container.
- Prevent static electricity and keep away from combustible materials or heat sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

- o ACGIH TLV
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : TWA 5 mg/m3, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
- o OSHA PEL
 - Not available

B. Engineering controls

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

C. Individual protection measures, such as personal protective equipment

- o Respiratory protection
 - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
 - 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.
 - Dust, mist, fume-purifying respiratory protection
 - Any air-purifying respirator with a corpuscle filter of high efficiency
 - Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
 - Self-contained breathing apparatus with a corpuscle filter of high efficiency
- o 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.
- o Hand protection
 - Wear appropriate glove.
- o Skin protection
 - Wear appropriate clothing.
- o Others
 - Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Liquid(Oil)
- Color	Transparent Brown
B. Odor	Mild petroleum odor
C. Odor threshold	No data available
D. pH	No data available
E. Melting point/Freezing point	No data available
F. Initial Boiling Point/Boiling Ranges	$\geq 330\text{ }^{\circ}\text{C}$
G. Flash point	$\geq 200\text{ }^{\circ}\text{C}$
H. Evaporation rate	No data available
I. Flammability(solid, gas)	No data available
J. Upper/Lower Flammability or explosive limits	No data available
K. Vapour pressure	less than 0.1 kPa (20 $^{\circ}\text{C}$)
L. Solubility	No data available
M. Vapour density	> 5 (Air=1)
N. Specific gravity(Relative density)	0.86
O. Partition coefficient of n-octanol/water	No data available
P. Autoignition temperature	No data available
Q. Decomposition temperature	No data available
R. Viscosity	11.8 cSt at 100 $^{\circ}\text{C}$, 63.5 cSt at 40 $^{\circ}\text{C}$
S. Molecular weight	No data 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

- o (Respiratory tracts)
 - Not available
- o (Oral)
 - Not available
- o (Eye-Skin)
 - Not available

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

- o Acute toxicity
 - * Oral - 50mg/kg < ATEmix <= 300mg/kg
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rat (ECHA)

- * **Dermal - ATE MIX : 200mg/kg < ATEmix <= 1000mg/kg**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 >5000 µg/kg Rabbit (ECHA)
- * **Inhalation - ATE MIX : Not available**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 >5.53 µg/ℓ 4 hr Rat (ECHA)
- o **Skin corrosion/irritation**
 - Not applicable
- o **Serious eye damage/irritation**
 - Not applicable
- o **Respiratory sensitization**
 - Not applicable
- o **Skin sensitization**
 - Not applicable
- o **Carcinogenicity**
 - * **IARC**
 - Not applicable
 - * **OSHA**
 - Not applicable
 - * **ACGIH**
 - Not applicable
 - * **NTP**
 - Not applicable
 - * **EU CLP**
 - Not applicable
- o **Germ cell mutagenicity**
 - Not available
- o **Reproductive toxicity**
 - Not applicable
- o **STOT-single exposure**
 - Not applicable
- o **STOT-repeated exposure**
 - Not applicable
- o **Aspiration hazard**
 - Not applicable

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- o **Fish**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 5000 µg/ℓ 96 hr Oncorhynchus mykiss (IUCLID)
- o **Crustaceans**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 µg/ℓ 48 hr Daphnia magna (IUCLID)
- o **Algae**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 µg/ℓ 96 hr Scenedesmus subspicatus (IUCLID)

B. Persistence and degradability

- o **Persistence**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : log Kow = 3.9 ~ 6 (Estimate)
- o **Degradability**
 - Not available

C. Bioaccumulative potential

- o **Bioaccumulative potential**
 - No data available
- o **Biodegradation**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Biodegradability = 6 (%) 28 day (Aerobic, Domestic wastewater, does not decompose easily)

D. Mobility in soil

- No data available

E. Other adverse effects

- No data available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, 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 disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG)

- Not applicable

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG 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.
- Air transport(IATA): Not subject to IATA regulations.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

15. REGULATORY INFORMATION

A. National and/or international regulatory information

- o POPs Management Law
 - Not applicable
- o U.S. Federal regulations
 - * OSHA PROCESS SAFETY (29CFR1910.119)
 - Not applicable
 - * CERCLA Section 103 (40CFR302.4)
 - Not applicable
 - * EPCRA Section 302 (40CFR355.30)
 - Not applicable
 - * EPCRA Section 304 (40CFR355.40)
 - Not applicable
 - * EPCRA Section 313 (40CFR372.65)
 - Not applicable
 - * California Prop. 65
 - Not applicable

- **Rotterdam Convention listed ingredients**
 - Not applicable
- **Stockholm Convention listed ingredients**
 - Not applicable
- **Montreal Protocol listed ingredients**
 - Not applicable
- **International Inventory Status**
 - United States : All components on TSCA inventory
 - Canada : All components on DSL
 - Europe : One or more components not found on EINECS
 - Japan : One or more components not found on METI
 - Australia : One or more components not found on NICNAS
 - Korea : All components on ECL
 - China : All components on IECSC
 - Philippines : All components on PICCSA

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

- 2017-05-19

C. Revision number and Last date revised

- Not applicable

D. Other

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