SAFETY DATA SHEET

This safety data sheet complies with the requirements of: OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product Name: Subaru Certified LSD Gear Oil 80W-90, 12 x 1 Quart Case
Product Code: 30450112-75000C020

Revision Date: 10-May-2021
Revision Number: 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: Subaru Certified LSD Gear Oil 80W-90, 12 x 1 Quart Case

Other means of identification

Product Code: 30450112-75000C020

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant

1.3 Details of the supplier of the safety data sheet

Manufactured by:
Idemitsu Lubricants America Corporation
701 Port Rd., Jeffersonville, IN. 47130
Telephone: 1-(812) 284-3300 Business hours: 8am-4:30pm est
Email: Ila.sds@idemitsu.com

24 Hour Emergency Phone Number:
Within USA and Canada: 1 800-424-9300
Outside USA and Canada: + 1 703-741-5970
(collect calls accepted)

2. HAZARDS IDENTIFICATION

2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin sensitization	Category 1

2.2 Label elements

Signal word	**Warning**
Hazard Statements	H317 - May cause an allergic skin reaction
Precautionary Statements - Prevention	P261 - Avoid breathing dust, fume, gas, mist, vapors, or spray P280 - Wear protective gloves P272 - Contaminated work clothing should not be allowed out of the workplace
Precautionary Statements - Response	P362 + P364 - Take off all contaminated clothing and wash it before reuse
Skin	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P363 - Wash contaminated clothing before reuse P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
Precautionary Statements - Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	Not applicable

2.3 Other information

Other hazards	May be harmful in contact with skin Causes mild skin irritation Toxic to aquatic life Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Hazardous Components

Chemical name	CAS-No	weight-%	US GHS Classification	Notes
Alkenyl amide	Confidential	<1	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	

Non-Hazardous Components

Chemical name	CAS-No	weight-%
Lubricating Base Stocks	Mixture	90-100

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES

4.1 First Aid Measures

General Advice If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. Call a physician immediately.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice or attention.

Inhalation Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

Ingestion Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. If symptoms persist, call a physician.

Protection of First-aiders Use personal protective equipment. Avoid contact with eyes, skin and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties NFPA: Class IIIB Combustible Liquid

5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to:

Carbon oxides
Nitrogen oxides (NOx)
Oxides of Phosphorus
Sulphur oxides

5.3 Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

Environmental Precautions See section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow into any sewer, on the ground or into any body of water. Do not flush into surface water or sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Methods for Clean-up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Spill Management

LARGE SPILLS Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities.

WATER SPILLS Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling Do not breathe dust, fume, gas, mist, vapors, or spray. Avoid contact with eyes, skin and clothing. Wear protective gloves, protective clothing, eye protection, and face protection. Use personal protection recommended in Section 8. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take precautionary measures against static discharges. Should not be released into the environment.

Safe Handling Advice Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

Technical measures/Precautions Ensure adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines

Chemical name	OSHA PEL	ACGIH TLV	ACGIH OEL (STEL)	NIOSHT REL TWA	ILA IHG	ILA ROEG	ILA Internal Exposure Limit
Oil mist, mineral	TWA: 5 mg/m³	TWA: 5 mg/m³		TWA 5 mg/m³ ST 10 mg/m³			

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal Protective Equipment

Eye/face protection Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.

Skin protection Wear protective gloves/clothing. Long sleeved clothing. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposed skin surfaces.
Glove Type: Neoprene, Nitriles

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Light Brown / Clear
Physical state	Liquid
Odor	Mild
Odor Threshold	No information available
pH	Not applicable
Melting point / melting range	Not applicable
Boiling point / boiling range	No information available
Flash Point	223 °C / 433 °F COC ASTM D92
Evaporation Rate	No information available

Flammability Limit in Air	No information available
Explosion Limits	No information available
Vapor pressure @20 °C (kPa)	No information available
Vapor density	No information available
Density	0.88 g/cm ^{3} @15°C
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition Temperature	No information available
Decomposing Temperature	No information available
Kinematic viscosity	@ 40C = 136.6 cSt; @ 100C = 14.36 cSt

9.2. Other information

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

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity The product is chemically stable.

10.2. Chemical stability

Chemical Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to Avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible Materials Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin Contact	May cause an allergic skin reaction. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms No information available

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Sensitization May cause an allergic skin reaction. May cause sensitization of susceptible persons.

Mutagenic effects Not classified.

Reproductive Toxicity Not classified

STOT - single exposure Not classified.

STOT - repeated exposure Not classified

Aspiration hazard Not classified.

11.4 Carcinogenicity

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA or ACGIH.

Legend: *IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), ACGIH (American Conference of Governmental Industrial Hygienists), OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

11.5 Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Product Information (Estimated):

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-dust/mist) >5 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Alkenyl amide	= 11160 mg/kg (Rat)	-	-

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity effects Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

Chemical name	96h LC50 (fish - mg/L) (96HLCF)	48h EC50 (daphnia - mg/L) (48HLCD)	72h LC50 (algae - mg/L) (72HICA)
Alkenyl amine	0.11	0.011	0.08

12.2 Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

12.4 Mobility in Environmental Media No information available.

12.5 Other adverse effects: No information available.

PBT and vPvB assessment No information available

13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Waste Disposal Method This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Dispose of in accordance with local regulations.

14.TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	All ingredients are on the inventory or exempt from listing
DSL/NDSL	There are ingredients listed on the NDSL Inventory List

Chemical name	NDSL	CAS-No	weight-%
Phenol, heptyl derivatives (impurity)	X	72624-02-3	<0.1

ENCS	All ingredients are on the inventory or exempt from listing
IECSC	All ingredients are on the inventory or exempt from listing
KECL	All ingredients are on the inventory or exempt from listing
PICCS	All ingredients are on the inventory or exempt from listing
AICS	All ingredients are on the inventory or exempt from listing
NZIoC	All ingredients are on the inventory or exempt from listing

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous Categorization

Acute health hazard	Skin Sensitizer
Chronic Health Hazard	Skin Sensitizer
Fire hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

Chemical name	CAS-No	weight-%	RQ	TPQ
Methyl alcohol	67-56-1	<0.01	RQ 5000lb final RQ RQ 2270kg final RQ	
Xylenes (o-, m-, p- isomers)	1330-20-7	<0.01	RQ 100lb final RQ RQ 45.4kg final RQ	
Cumene	98-82-8	<0.01	RQ 5000lb final RQ RQ 2270kg final RQ	
Methylisobutylketone	108-10-1	<0.0001	RQ 5000lb final RQ RQ 2270kg final RQ	
Toluene	108-88-3	<0.0001	RQ 1000lb final RQ RQ 454kg final RQ	
Ethyl acrylate	140-88-5	<0.0001	RQ 1000lb final RQ RQ 454kg final RQ	
Benzene	71-43-2	<0.0001	RQ 10lb final RQ RQ 4.54kg final RQ	
Ethyl benzene	100-41-4	<0.000001	RQ 1000lb final RQ RQ 454kg final RQ	

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical name	CAS-No	weight-%	HAPS data
Methyl alcohol	67-56-1	<0.01	X
Xylenes (o-, m-, p- isomers)	1330-20-7	<0.01	X
Cumene	98-82-8	<0.01	X
Methylisobutylketone	108-10-1	<0.0001	X
Toluene	108-88-3	<0.0001	X
Ethyl acrylate	140-88-5	<0.0001	X
Benzene	71-43-2	<0.0001	X
Ethyl benzene	100-41-4	<0.000001	X

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CAS-No	weight-%	U.S. - CWA (Clean Water Act)
Xylenes (o-, m-, p- isomers)	1330-20-7	<0.01	X
Cyanide anion	57-12-5	<0.001	X
Toluene	108-88-3	<0.0001	X

Benzene	71-43-2	<0.0001	X
Ethyl benzene	100-41-4	<0.000001	X

State Regulations

California Proposition 65

Label:

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

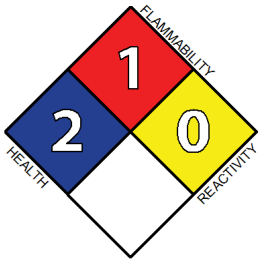
Chemical name	CAS-No	weight-%	California Prop. 65	Maximum Allowable Dose for Reproductive Toxicity (MADLS)	Safe Harbor Limits for Cancer-causing Chemicals (NSRLs)
Methyl alcohol	67-56-1	<0.01	Developmental	47000µg/dayinhalation 23000µg/dayoral	
Cumene	98-82-8	<0.01	Carcinogen		
Methylisobutylketone	108-10-1	<0.0001	Carcinogen Developmental		
Toluene	108-88-3	<0.0001	Developmental	7000µg/daylevel represents absorbed dose	
Ethyl acrylate	140-88-5	<0.0001	Carcinogen		
Benzene	71-43-2	<0.0001	Carcinogen Developmental Male Reproductive	24µg/dayoral 49µg/dayinhalation	6.4 µg/day oral 13 µg/day inhalation
Ethyl benzene	100-41-4	<0.000001	Carcinogen		54 µg/day inhalation 41 µg/day oral

State Right-to-Know

Chemical name	CAS-No	weight-%	Pennsylvania
Isopropyl alcohol	67-63-0	<0.1	X

New Jersey Worker and Community Right-to-Know Act:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating Oil)

16. OTHER INFORMATION



NFPA **Health hazards:** 2 **Flammability:** 1 **Instability:** 0

Prepared By: Lindsay Lindsey

Revision Date: 10-May-2021

Revision Summary: Prop 65 change

Disclaimer:

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet