SAFETY DATA SHEET

AUTOBACS SEMI SYNTHETIC ENGINE OIL 10W40 SP

Version 1 Date of issue 2020/8/31

According to SS 586: 2014 Singapore Standard on the Hazard Communication for Hazardous Chemicals and Dangerous Goods

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Product name

AUTOBACS SEMI SYNTHETIC ENGINE OIL 10W40 SP

Product type Liquid.

Use of the substance/mixture Gasoline Engine Oil Lubricant

For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Details of the supplier of the safety data sheet

AUTOBACS SEVEN CO., LTD.

Supplier Address

NBF Toyosu Canal Front,6-52,Toyosu 5-Chome, Koto-ku, Tokyo 135-8717, Japan

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SECTION 2: Hazards identification

Classification according to SS 586: 2014 Singapore Standard on the Hazard Communication for Hazardous Chemicals and Dangerous Goods

Classification of the substance or mixture

Aquatic Acute Category 3

Aquatic Chronic Category 4

Label elements

Hazard pictograms No Pictogram Required

Signal word No Signal Word

Hazard statements

H402: Harmful to aquatic life

H413: May cause long lasting harmful effects to aquatic life

Precautionary statements

P273: Avoid release to the environment.

Response No response statement.

Storage No Storage statement.

Disposal

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification

Defatting to the skin. Used oil may contain hazardous components which have the potential to cause skin cancer.

SECTION 3: Composition/information on ingredients

Substance / mixture Mixture

. Chemically modified base oil and proprietary performance additives

Product / ingredient name	%	CAS Number	GHS Classification
Distillates (petroleum), hydrotreated heavy paraffinic	1-10	64742-54-7	Aspiration Toxicity Cat. 1
Distillates (petroleum), hydrotreated heavy paraffinic	70-90	64742-54-7	Not classified
Cycloalkane	<0.02	110-82-7	Flammable Liquid Cat. 2 Skin Corrosion/Irritation Cat. 2 Aspiration Toxicity Cat. 1 STOT (Single) Cat. 3 Aquatic Acute Cat. 1 Aquatic Chronic Cat. 1
bis(nonylphenyl)amine	<1.0	36878-20-3	Skin corrosion/Irritation Cat. 3
zinc O,O,O',O'-tetrakis(1,3−dimethylbutyl) bis(phosphorodithioate)	<1.0	2215-35-2	Acute Tox (oral) - Cat. 5 Skin Corrosion/ Irritation Cat. 2 Eye Irritation Cat. 1 Aquactic Acute Cat. 2 Aquactic Chronic Cat. 2
Long-chain olefin sulphides	<1.0	Trade secret	Aquatic Chronic Cat. 4
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	<0.5	4259-15-8	Acute Tox (oral) - Cat. 5 Eye Irritation Cat. 1 Aquactic Acute Cat. 2 Aquactic Chronic Cat. 2
Amides, coco, N,N-bis(hydroxyethyl)-,reaction products with coco monoglycerides and molybdenum oxide	<0.5	445409-27-8	Aquactic Acute Cat. 2 Aquactic Chronic Cat. 2

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8

SECTION 4: First aid measures

Description of first aid measures

Eye contact	In case of contact with eyes, immediately flush eyes thoroughly with plenty of water for at least 15 minutes. While rinsing, occasionally lifting the upper and lower eyelids . Remove any contact lenses if present and easy to do. Seek medical advice if irritation persists
Skin contact	Take off contaminated clothing and shoes immediately. Flush contaminated skin with soap and plenty water in order to remove the material from skin. Get medical attention if irritation develops. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Inhalation	If inhaled, remove exposed person to fresh air. Get medical attention if symptoms appear.
Ingestion	Rinse mouth with water. Remove dentures if any. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Most important symptoms and effects, both acute and delayed	No known significant effects or critical hazards on potential acute health effects for eye, skin, ingestion and inhalation. No any specific data on over-exposure signs/symptoms for eye, skin, inhalation and ingestion
Indication of any immediate medical attention and special treatment needed notes to physician	Show this safety data sheet to the doctor in attendance in order to treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing media

Suitable extinguishing media	In case of fire, use water spray (fog), foam, dry chemical or carbon dioxide to extinguish flames
Unsuitable extinguishing media	Not to use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Combustion products may include: carbon monoxide, carbon dioxide, metal oxides, hydrogen sulfide, sulphur oxides, phosphorus oxides, zinc oxides and unburned hydrocarbons (smoke)
Special precautions and equipment for fire-fighters	Cool fire-exposed containers with water. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Firefighters should always wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personal	No action shall be taken involving any personal risk or without suitable training. Isolate and evacuate surrounding areas. Keep unauthorized and unprotected personnel from entering. Do not touch or walk through spilt material. Material can create slippery condition; use care to avoid falling. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Small Spill	Stop leakage or spillage if without risk. Move containers from spill area. Soak up with an inert dry material (eg: sand, silica gel, acid binder, universal binder, sawdust) if water-insouble and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	Stop leak in the condition without risk. Move containers from spill area. Prevent spillage entering into sewers, watercourses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in closed container or drum for disposal according to local regulations or dispose of via a licensed waste disposal contractor.
Reference to other sections	Refer to Section 8 and 13

SECTION 7: Handling and storage

Precautions for safe handling

Protective measures	Always wear appropriate personal protective equipment. Avoid inhalation of vapour, mist or aerosols. Avoid contact with skin and eyes. Avoid release to the environment. Ensure adequate ventilation. Keep away from flames and sparks. Empty containers may retain residue which can be hazardous, please do not reuse the container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed or keep closed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers.

SECTION 8: Exposure controls / personal protection

Control parameters

Occupational exposure limits

Ingredient Name	ACGIH TLV (United States)	OSHA - PEL
Distillates (petroleum),hydrotreated heavy paraffinic	TWA: 5 mg/m3 (Inhalable fraction)	Not available

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Appropriate engineering controls	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. No special requirements under ordinary conditions of use and with adequate ventilation.
Environmental exposure controls	Emissions from ventilation or work proces equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubers, filters or enginering modifcations to the process equipment wil be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. When using do not eat, drink and smoke. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Remove contaminated clothing and protective equipment before entering eating areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye / face protection	Good industrial hygiene practice suggests the use of eye protection whenever working with chemicals. If contact is likely, safety glasses with side shields are recommended

Skin protection

Hand protection	Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove wil break down after repeated chemical exposures). Most gloves provide only a short ime of protection before they must be discarded and replaced. Gloves should therefore be chosen in consultation with the suplier/manufacturer and with a ful assessment of the working conditions. Protective gloves should be worn at all times when handling chemical products.
Skin and body	Use of protective clothing is good industrial practice. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	B & C
Physical state	Liquid.
Colour (ASTM D1500)	<3.0
Odour	Not available.
Odour threshold pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point (ASTM D97), (°C)	Not available.
Flash point (ASTM D92), (°C) Flash point (ASTM D93), (°C)	-33 218
Evaporation rate	-
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density (ASTM D4052) @15°C, (g/cm3)	Not available. 0.8603
Solubility(ies)	insoluble in water.
Partition coefficient: n-octanol/water	>3
Auto-ignition temperature	338
Decomposition temperature	Not available.
Kinematic Viscosity (ASTM D445)@40°C, (cSt)	93.10
Kinematic Viscosity (ASTM D445)@100°C, (cSt)	14.74
Explosive properties	Not available.
Oxidising properties	Not available.
Other information	No additional information.

SECTION 10: Stability and reactivity

Reactivity	No data available for this product or its ingredients. Not dangerous reaction known under normal conditions of normal use. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable when handled, stored and used as directed
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame) and excessive heat.
Incompatible materials	Oxidising agents.
Hazardous decomposition products	This products does not decompose at ambient temperatures. If decomposition occurred, decomposition products include oxides of carbon and nitrogen, smoke and other toxic fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Basis for assessment	Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s). No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.
Information on the likely routes of exposure	Skin, eyes, Ingestion and Inhalation

Products

Acute oral toxicity	There is no data available for the product itself
Acute dermal toxicity	There is no data available for the product itself
Acute inhalation toxicity	There is no data available for the product itself
Skin corrosion/irritation	Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.,
Serious eye demage/ eye irritation	May cause temporary eye irritation
Skin Sensitisation	There is no data available for the product itself
Germ cell mutagenicity	There is no data available for the product itself

Carcinogenicity	There is no data available for the product itself
Reproductive toxicity	There is no data available for the product itself
STOT-single exposure	There is no data available for the product itself
STOT-repeated exposure	There is no data available for the product itself
Aspiration toxicity	There is no data available for the product itself

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 (Rat): > 5,000 mg/kg	LD50 (Rabbit):>2,000 mg/kg	LC50 (Rat): > 5.53 mg/l

Further information

Product:	Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible

SECTION 12: Ecological information

Basis for assessment	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa-tive of the product as a whole, rather than for individual com-ponent(s).
Ecotoxicity	Toxic to aquatic life with long lasting effects
Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.

SECTION 13: Disposal considerations

Methods of disposal	Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS. Recycle or reuse if possible. Do not dispose in the environment, sewers,and watercourses. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

ADR	This material is not classified as dangerous under ADR regulations.
IMDG	This material is not classified as dangerous under IMDG regulations.
IATA (Country variations may apply)	This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

	IMDG	IATA
UN number	not regulated	not regulated
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No	No
Special information	-	-

Special precautions for user Not available.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Inventories

REACH Status	For the REACH status of this product please consult your company contact, as identifed in Section 1.
United States inventory (TSCA 8b)	All components are listed or exempted.
Australia inventory (AICS)	All components are listed or exempted.
Canada inventory DSL/NDSL	All components are listed or exempted.
China inventory (IECSC)	At least one component is not listed.

Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory	All components are listed or exempted.
New Zealand inventory (NZIOC)	All components are listed or exempted.
Chemical Safety Assessment	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronym

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LC50 = Lethal Concentration to 50% of a test population

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

Log Pow = logarithm of the octanol/water partition coefficient PPE = Personal Protective Equipment

REACH = European Regulation and is an acronym for the Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL = Short term exposure limit

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

Notice to reader

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. AUTOBACS SEVEN CO., LTD. shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.