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# SAFETY DATA SHEET

## **SECTION 1. Product Identification**

Product Identification	
Product Name:	AUTOBACS FUEL SYSTEM TREATMENT
Product No.:	00032396
Product Type:	Liquid (mixture)
Product Usage:	Fuel additive for internal combustion petrol engines
Manufacturer Name:	AUTOBACS SEVEN CO., LTD.
Address:	NFB Toyosu Canal Front, 6-52,Toyosu 5-chome, Koto-ku, Tokyo 135-8717, Japan
Emergency Telephone:	+81-3-6219-8779 (Overseas Business Department)
Facsimile Number:	+81-3-6219-8765 (Overseas Business Department)

## SECTION 2. Hazard Identification

Classification:	Mixture		
GHS Labelling & Precautionary Statements			
Physical Hazards:	Flammable liquid	Category	4
Health Hazards:	Skin corrosion/irritation	Category	2
	Eye damage/irritation	Category	2
	Carcinogenicity	Category	2
	Aspiration hazard	Category	1
Hazard Symbol:			
Signal Word:	Danger		
Hazard Statement:	H227 Combustible liquid		
	H304 May be fatal if swallowe	d and enters airwa	ays
	H315 Causes skin irritation		
	H319 Causes serious eye irrita	tion	
	H351 Suspected of causing ca	ncer	
Precautionary Statements			
Prevention	P201 Obtain special instructions before use.		
	P202 Do not handle until all sa	fety precautions l	nave been read and understood.
	P210 Keep away from heat, he	ot surface, sparks,	open flames and ignition sources.
	No smoking.		
	P264 Wash thoroughly after h	andling.	
	P280 Wear protective gloves/	protective clothing	g/eye protection/face protection.
Response	P301+P310 IF SWALLOWED: Ir	nmediately call a I	POISON CENTER or doctor/physician.
	P302+P352 IF ON SKIN: Wash	with plenty water	/soap.
	P305+P351+P338 IF IN EYES: F	linse cautiously wi	th water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use water spray, dry chemical, foam, carbon dioxide to extinguish.
P403 Store in a well-ventilated place.
P405 Store locked up.
P501 Dispose of content/container in accordance with local/regional/national/international regulations. Every customer/user of the product should dispose of industrial waste governor for treating industrial waste or a local public body involved in the disposal of industrial waste for proper disposal. Before disposal of used container, remove contents completely.

# SECTION 3. Composition / Information on Ingredients

Substance or Mixture:	Mixture		
Chemical Name:	Petroleum Hydrocarbon and Additives		
Composition:	Base Oil - Lubricating Base Oil	80 ~ 90	%mass
	(Highly refined mineral oil	contains <3%DMSO	-extract, according to IP346)

Additives

10 ~ 20 %mass

# SECTION 4. First Aid Measures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
	breathing.
	Cover the body with blankets to keep warm. If continue to feel unwell, seek medical advice.
Skin Contact:	Immediately flush skin with large amount of water.
	Wash contaminated clothing before reuse.
	If skin irritation occurs seek medical advice/attention.
Eye Contact:	Rinse with clean water carefully for several minutes. Remove contact lenses if present and
	if removal is easy, then continue rinsing. Rinse for minimum 15 minutes and seek medical
	attention.
Ingestion:	Do not induce vomiting. Drink plenty of water.
	Call a physician or poison control center immediately.

## SECTION 5. Fire Fighting Measures

Suitable Extinguishing Media: Extinguishing Media to Avoid:	Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam, and dry sand are effective. Use of straight stream of water can cause a risk of spreading fire.
Specific Hazards Arising from the Chemical:	In case of fire, may release irritant gases.
Fire Fighting:	When burnt, may generate carbon monoxide and other toxic gases.
	Spray water to the surrounding facilities for cooling.
	Keep unauthorized persons off the site of occurrence of fire and the surroundings.
	Even after extinguished, cool containers thoroughly with plenty of water.
Special Protective Equipment	Wear fire / flame resistant / retardant clothing.
& Precautions for Fire Fighters:	Fight fire from windward direction while wearing protective equipment.
	If contact with skin is expected, wear impervious protective equipment including gloves
	Use air-breathing apparatus and protective clothing whenever necessary.

## SECTION 6. Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures:	Wear protective equipment when working. Remove nearby potential ignition sources immediately. When mist is generated, use respiratory equipment to prevent inhalation of mist. Do not touch or walk through spillage. Pay attention to the site of spillage, which is slippery.
Environmental Precautions:	Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill to flow to street drains, sewer systems, and rivers. At sea, install oil spill containment booms to prevent spreading of spills and absorb with absorption mat or other materials.
Method and Materials for Containment & Cleaning Up:	<ul><li>In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper materials.</li><li>In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty containers to the extent possible.</li></ul>
Prevention of Second Accident:	In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and spreading of spillage. Remove nearly potential ignition sources immediately and make fire extinguishing agents available. Remove spillage completely and ventilate and clean the site and the surroundings.

## SECTION 7. Handling and Storage

#### Handling

Technical Measures:	Keep away from any possible contact with sparks, open flames, and high temperature
	materials, and do not allow release of vapor without justification.
	Use pump or other proper equipment for taking out from containers.
	Do not siphon with your mouth using a tube. Do not drink.
	When mist is generated, use respiratory equipment to prevent inhalation of mist.
	In case of vapor / mist dispersion, install a closed system, local ventilation system, and/or
	other proper equipment for the sources of vapor / mist generation.
	Avoid rough handling of containers such as falling, dropping, exposing to shock, & dragging.
Ventilation Requirements:	Maintain adequate ventilation when handling indoors.
Precautions:	Wash hands and face thoroughly after handling.
	Be careful with fire.
Precautions for Safe Handling:	Avoid falling, dropping, exposing to shock, or dragging of containers.
	Wear protective gloves when opening containers to eliminate a risk of hand injury.
Storage	
Storage Conditions:	Store in a well ventilated, cool, dry, dark place, protection from direct sunlight and keeping
	away from any potential ignition sources and high-temperature materials.
	Store tightly stopped after use to prevent possible contamination with dust and moisture.
	Preferably store locked up in a proper storage area.
Safety Adequate container Materials:	Use spill-proof containers that are free of damage / corrosion.

## SECTION 8. Exposure Controls / Personal Protection

Appropriate Engineering	In case of mist generation, enclose the source of mist generation, or install a ventilation
Controls:	system. Install eye cleaning and body cleaning and body cleaning equipment near the
	handling site.
Exposure Limits:	Not established

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Allowable Limits:	When mists/ aerosols may occur, the following are recommended;
	5 mg/m3 ACGIH TLV as for mineral oil mist
	10mg/m3 ACGIH STEL as for mineral oil mist
Personal Protective Equipment	
Respiratory Protection:	Not needed under normal conditions but wear a gas mask (against organic gases) whenever required.
Hand Protection:	In case of prolonged or repeated exposure, wear oil-resistant hand protection.
Eye / Face Protection:	In case of exposure to splashes, wear ordinary type goggles.
Skin Protection:	In case of handling over a prolonged period of time or in case of exposure to oil, wear oil-resistant, long-sleeved work clothing.
Hygiene Measures:	Take off contaminated clothing and wash thoroughly before reuse. Wash hands thoroughly after handling.

# SECTION 9. Physical and Chemical Properties

## Physical State

Form:	Liquid	
Colour:	Pale Yellow	
Odour:	Slight Odour	
Melting Point / Freezing Point:	No Data	
Initial Boiling Point & Boiling Range:	Initial Boiling Point - End Point	200.5 - 268 °C
Flash Point:	79°C(PM)	
Auto-Ignition Temperature:	No Data	
Upper / Lower Flammability Explosion:	(1-7%)	
Limit or Explosive Limit:	No Data	
Vapour Density:	No Data	
Density:	0.82g/cm3(15°C)	
Solubility:	water: Insoluble	
Partial Coefficient:	No Data	
Kinematic Viscosity:	2.5mm2/s(40°C)	
n-Octanol / Water:	No Data	
Decomposition Temperature:	No Data	
Pour Point:	No Data	

# SECTION 10. Stability and Reactivity

Chemical Stability:	Stable when stored or preserved in a dark place at room temperature.
Possibility of Hazardous Reaction:	Keep away from any possible contact with strong oxidizing agents.
Conditions to Avoid:	Contact with incompatible hazard substances.
	Prolonged heating, open flames, and ignition sources.
Incompatible Materials:	Use care to keep away from any possible contact with halogens, strong acids, alkalis,
	and acidifying substances.
Hazardous Decomposition Products:	When burnt, may release carbon monoxide and other gases.

# SECTION 11. Toxicological Information

Acute Toxicity		
Base Oil:	Oral LD50 (Rat)	>5000mg/kg
	Dermal (Rabbit)	>2000mg/kg
	Inhalation-mist LD50(Rat)	Not possible to classify due to insufficient data.
	For mixtures, hazard category was identified based on the classification criteria	
	for mixtures.	
Skin Corrosion/Irritation		
Base Oil:	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact with material may cause dermatitis.	
	Symptoms may include redness, edema, drying, and cracking of the skin.	
	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Serious Eye Damage/Irritation		
Base Oil:	Not excepted to cause eye irritation. Based on data from components or similar ma	
Descriptory on Chin Consitiontion	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Respiratory or Skin Sensitization Base Oil:		
base on.	Respiratory: No data available to indicate product or components may be a respiratory sensitizer. Skin: No data available to indicate product or components may be a skin sensitizer.	
		s identified based on the classification criteria for mixtures.
Germ Cell Mutagenicity	Tor mixtures, nazara category was	
Base Oil:	No data available to indicate prod	luct or components present at greater than 0.1% are
	mutagenic or genotoxic.	
	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Carcinogenicity		
Base Oil:	The classification as a carcinogen	need not apply if it can show that substance contains less
	than 3% DMSO extract as measured by IP346. This applies only to certain complex oil	
	substances in Annex 1. The product of "Mineral Oil" declares that it contains less than	
	3% DMSO extractable material by IP346.	
	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Reproductive Toxicity		
Base Oil:	No data available to indicate either product or components at greater than 0.1% that r	
	cause reproductive toxicity.	
	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Specific Target Organ Toxicity (Single Exposure)		
Base Oil:	Although the product uses no con	nponent that is acknowledged as acute organ toxicity, it is
	not possible to classify since the c	omponents have no useful information.
	For mixtures, hazard category was	s identified based on the classification criteria for mixtures.
Specific Target Organ Toxicity (Repeated Exposure)		
Base Oil:	Although the product uses no con	nponent that is acknowledged as acute organ toxicity, it is
		omponents have no useful information.
		s identified based on the classification criteria for mixtures.
Aspiration Toxicity		
Base Oil:	This product is a hydrocarbon and	I has a kinematic viscosity of 20.5 mm2/s or less, measured
		hat oil or chemical pneumonia may be caused as a result of
	the aspiration of this product into	the lungs if swallowed. See section 16 for the references.
Other Information:	No other health hazards known.	

#### SECTION 12. Ecological Information

#### Hazardous to the Aquatic Environment - Acute Aquatic Hazard

Base Oil:

Petroleum distillates similar to this base oil have the following data obtained from Water Accommodated Fractions (WAF);

	Fish	Rainbow Trout, 96hrs,	LL50 > 1000mg/L
	Crustacea	Daphnia Magna, 48hrs,	LL50 > 1000mg/L
	Algae	Selenastrum, 72hrs,	EL50 > 1000mg/L
	Fish	Rainbow Trout, 28days,	NOEL 0.173mg/L
	Crustacea	Daphnia magna, 21days,	NOEL 1.22mg/L
Chronic Aquatic Hazard:	Thus, the product is not considered to have acute hazard to aquatic environment. For mixtures, hazard category was identified based on the classification criteria for mixtures. Based on the above data, the product is acknowledged as no chronic hazard to aquatic environment. For mixtures, hazard category was identified based on the classification criteria for mixtures.		
Persistence and Non- Degradability:	The product is assumed to be biodegradable to some extent, but not rapidly degradable.		
Bio-Accumulative Potential:	There is no useful information.		

Mobility in Soil:Since the product is insoluble and buoyant in/on water, it is expected to migrate fromwater to the land and expected to partition to sediment and wastewater solids.

Hazardous to the Ozone Layer: The product does not contain any substances listed in the Annexes to Montreal Protocol.

## SECTION 13. Disposal Considerations

Disposal Methods:	Dispose of contents / container in accordance with local / regional / national / international regulations.
	Every customer / user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of
	industrial waste for proper disposal. Before disposal of used container, remove contents completely.

#### **SECTION 14. Transport Information**

UN Classification	
UN Number:	Not Applicable
UN Class:	Not Applicable
Package Code:	Not Applicable
IMDG (SEA):	Not Applicable
IATA (AIR):	Not Applicable
Specific Security Precaution and Condition of Transportation:	Transport containers without causing any significant friction or shaking.

## SECTION 15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture National Regulations (JAPAN)		
Fire Service Law:	Category 4, Flammable Liquids, Class #3 Petroleum, Water Immiscible	
Industrial Safety & Health Law:	No.57. Notification Substance; Mineral Oil, Mineral Spirits	
Pollution Release & Transfer Register (PRTR):	Not Regulated	
Poisonous & Deleterious Substance Control Act:	Not Regulated	

## SECTION 16. Other Information

#### References

- 1. Advice on Allowable concentration, Japan Society for Occupational Health (2010)
- 2. Thresholds limit values for chemical substances and physical agents and biological exposure indices, ACGIH (2010)
- 3. ECHA (European Chemicals Agency), website "ECHA CHEM", Information on Registered Substances (2011). SDS of EU suppliers (2011)
- 4. IARC Monographs Programmed on the Evaluation of Carcinogenic Risk to Humans (2006)
- 5. Globally Harmonized System of Classification and Labelling of Chemicals (GHS):Rev.6(2015)

The information and recommendation 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 and recommendation 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. It is the user's responsibility that the product is suitable for the intended use and the responsibility to ensure proper health, safety and other necessary information is included with and/or on the container.