Safety Data Sheet 369

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

SECT	ION 1. Identification of the Su	ibstance/mixture and or the company/undertaking
1.1.	Product identifier	
Product	form	: Mixture
Product	name	: Service Pro European Vehicles Blue Concentrate Antifreeze and Coolant
1.2.	Relevant identified uses of the sul	ostance or mixture and uses advised against
Use of t	he substance/mixture	: Antifreeze & Coolant
1.3.	Details of the supplier of the safet	y data sheet
AIOD P.O. Bo	se, CO 81402	Manufactured by: Old World Industries, LLC 3100 Sanders Rd Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com
1.4.	Emergency telephone number	

Emergency number

: 800 424 9300 (United States); 00 1 703 527 3887 (International)

SECTION 2: Hazards identification

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GHS-US classification

Acute toxicity (oral), H302 Category 4 Specific target organ H373 toxicity — Repeated exposure, Category 2 Harmful if swallowed.

May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling Hazard pictograms (GHS-US)

	GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H302 - Harmful if swallowed. H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe mist, spray, vapors P264 - Wash affected areas thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear personal protective equipment as required. P301+P310 - If swallowed: Immediately call doctor/physician or poison center

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
ethylene glycol	(CAS-No.) 107-21-1	90 - 97	Acute Tox. 4 (Oral), H302
sodium benzoate	(CAS-No.) 532-32-1	0.5 - 5	Acute Tox. 4 (Dermal), H312
diethylene glycol	(CAS-No.) 111-46-6	0.5 - 5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
water	(CAS-No.) 7732-18-5	1 - 5	Not classified
denatonium benzoate	(CAS-No.) 3734-33-6	30 - 50 ppm	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice. If not breathing, give artificial respiration.		
First-aid measures after skin contact	: Remove contaminated clothing. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes), Get medical advice/attention.		
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Get medical advice and attention.		
First-aid measures after ingestion	: Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/effects	: Causes damage to organs (kidneys) Oral.		
Symptoms/effects after skin contact	: Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye damage.		
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).		

4.3. Indication of any immediate medical attention and special treatment needed

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

SECTION 5: Firefighting measures	5	
5.1. Extinguishing media		
Suitable extinguishing media	: Water fog. Fine water spray. Foam. Carbon dioxide. Dry chemical powder. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.	
5.2. Special hazards arising from the	substance or mixture	
Fire hazard	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 monoxide. Carbon dioxide. Product is not flammable or combustible but may burn under fire conditions.	
Reactivity	: No dangerous reactions known under normal conditions of use.	

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5.3. Special prot	tective equipment and precautions for fire-fighte	rs	
Firefighting instructions		g for cooling exposed containers. Exercise caution when fighting any	
0 0	chemical fire. Prevent	fire fighting water from entering the environment.	
Protection during firefig	Jhting : Do not enter fire area	without proper protective equipment, including respiratory protection.	
SECTION 6: Acci	dental release measures		
6.1. Personal pr	ecautions, protective equipment and emergency	/ procedures	
6.1.1. For non-em	ergency personnel		
Emergency procedures		y personnel.	
6.1.2. For emerge	ncy responders		
Protective equipment	: Equip cleanup crew v	vith proper protection. Refer to section 8.2.	
Emergency procedures	s : Ventilate area.		
6.2. Environmen	ntal precautions		
Prevent entry to sewer	s and public waters. Notify authorities if liquid enter	s sewers or public waters.	
6.3. Methods an	d material for containment and cleaning up		
Methods for cleaning u	spillage. Small quanti	ert solids, such as clay or diatomaceous earth as soon as possible. Collect ties of liquid spill: take up in non-combustible absorbent material and for disposal. Store away from other materials.	
6.4. Reference to	o other sections		
For further information	refer to section 13. For further information refer to s	section 8: "Exposure controls/personal protection".	
SECTION 7: Hand	lling and storage		
7.1. Precautions	s for safe handling		
Precautions for safe ha		er exposed areas with mild soap and water before eating, drinking or aving work. Provide good ventilation in process area to prevent formation	
Hygiene measures	: Do not eat, drink or si handling.	noke when using this product. Wash affected areas thoroughly after	
7.2. Conditions	for safe storage, including any incompatibilities		
Storage conditions	Keep container close °C (0 °F). Do not store	nal container in a cool, well ventilated place away from : Heat sources. d when not in use. Product may become solid at temperatures below -18 e near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, on, etc. containers even when empty.	
Incompatible products	: Keep away from stror	Keep away from strong acids, strong bases and oxidizing agents.	
Incompatible materials	ncompatible materials : Sources of ignition.		
7.3. Specific end	l use(s)		
No additional information	on available		
SECTION 8: Expo	osure controls/personal protection		
8.1. Control para	ameters		
sodium benzoate (5	32-32-1)		
Not applicable			
ethylene glycol (107	·-21-1)		
ACGIH	Local name	Ethylene glycol	
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³	
ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)	
ACGIH			

ACGIH

ACGIH STEL (ppm)

Upper respiratory tract & eye irritant

50 ppm (Vapor fraction)

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water (7732-18-5)

Not applicable

denatonium benzoate (3734-33-6)

Not applicable

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions. If exposed to levels above exposure limits wear appropriate respiratory protection.



SECTION 0. Physical

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Color	: Blue			
Odor	: mild			
Odor threshold	: No data available			
pH 50% water solution	: 8.4			
Relative evaporation rate (butylacetate=1)	: Nil			
Freezing point	: -18 °C (0 °F)			
Boiling point	: 158 °C (317 °F)			
Flash point	: 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56			
Auto-ignition temperature	: 400 °C (752 °F) [100% Ethylene Glycol] Literature			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapor pressure	: < 0.1 mm Hg @ 20 ⁰C			
Relative vapor density at 20 °C	: No data available			
Specific Gravity	: 1.13			
Density	: 1.13 kg/l (9.42 lbs/gal)			
Solubility	: Water: Complete			
Log Pow	: No data available			
Log Kow	: No data available			
Viscosity, kinematic	: No data available			

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Viscosity, dynamic	: No data available
Explosive limits	: 3.2 - 15.3 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 3.2 - 15.3 vol %
9.2. Other information	
VOC content	: 0%
SECTION 10: Stability and read	tivity
10.1. Reactivity	
No dangerous reactions known under nor	mal conditions of use.
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reac	tions
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
	p away from any flames or sparking source.
10.5. Incompatible materials	
Keep away from strong acids, strong bas	
10.6. Hazardous decomposition pr	oducts
alcohols. Carbon dioxide. Carbon monoxi	de. Fume. alcohols. Aldehydes. Ethers.
SECTION 11: Toxicological info	ormation
11.1. Information on toxicological	effects
Acute toxicity	: Not classified
sodium benzoate (532-32-1)	
LD50 oral rat	> 2700 mg/kg (Rat)
LD50 dermal rat	> 7940 mg/kg (Rat)
LD50 dermal rabbit	2000 mg/kg (Rabbit)
ATE US (dermal)	2000 mg/kg bodyweight
ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male/female, Experimental value)
LC50 inhalation rat (mg/l)	 > 2.5 mg/l (6 h, Rat, Male/female, Experimental value)
ATE US (oral)	500 mg/kg bodyweight
diethylene glycol (111-46-6)	
LD50 oral rat	19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value)
LD50 dermal rabbit	11890 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)
ATE US (oral)	500 mg/kg bodyweight
ATE US (dermal)	11890 mg/kg bodyweight
denatonium benzoate (3734-33-6)	
LD50 oral rat	584 mg/kg (Rat, Literature study)
DEC demodent	> 2000 mg/kg (Rabbit, Literature study)
LD50 dermal rabbit	
ATE US (oral)	584 mg/kg bodyweight
ATE US (oral)	584 mg/kg bodyweight : Not classified
ATE US (oral) Skin corrosion/irritation	: Not classified
ATE US (oral) Skin corrosion/irritation Serious eye damage/irritation	: Not classified : Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Causes damage to organs (kidneys) Oral.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

12.1. Toxicity		
sodium benzoate (532-32-1)		
LC50 fish 1	> 100.00 mg/l (96 h, Pimephales promelas, Static system)	
EC50 Daphnia 1	< 650.00 mg/l (48 h, Daphnia magna)	
EC50 Daphnia 2	> 100.00 mg/l (48 h, Daphnia magna)	
ethylene glycol (107-21-1)		
LC50 fish 1	40,761.00 mg/l (96 h, Salmo gairdneri, Static system)	
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)	
diethylene glycol (111-46-6)		
LC50 fish 1	> 5,000.00 ppm (24 h, Carassius auratus)	
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)	
LC50 fish 2	75,200.00 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)	

	Experimental value)	
denatonium benzoate (3734-33-6)		
LC50 fish 1	> 1,000.00 mg/l (96 h, Salmo gairdneri, Literature study)	
EC50 Daphnia 1	13.00 mg/l (48 h, Daphnia magna, Literature study)	

> 10,000.00 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water,

12.2. Persistence and degradability

EC50 Daphnia 2

SECTION 12: Ecological information

sodium benzoate (532-32-1)		
Persistence and degradability	Readily biodegradable in water.	
ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance	
ThOD	1.29 g O₂/g substance	
BOD (% of ThOD)	0.36	
diethylene glycol (111-46-6)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in water.	
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance	
ThOD	1.51 g O ₂ /g substance	
BOD (% of ThOD)	0.02	

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denatonium benzoate (3734-33-6)				
Persistence and degradability	Biodegradability in water: no data available. No (test) data on mobility of the substance available.			
2.3. Bioaccumulative potential				
sodium benzoate (532-32-1)				
Log Pow	0.84			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
ethylene glycol (107-21-1)				
BCF fish 1	10.00 (72 h, Leuciscus idus)			
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp., Chronic)			
BCF other aquatic organisms 2	190.00 (24 h, Algae)			
Log Pow	-1.34 (Experimental value)			
Bioaccumulative potential	Not bioaccumulative.			
diethylene glycol (111-46-6)				
BCF fish 1	100.00 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)			
Log Pow	-1.98 (Calculated, Other)			
Bioaccumulative potential Not bioaccumulative.				
denatonium benzoate (3734-33-6)				
Log Pow	1.78 (Estimated value)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
2.4. Mobility in soil				
ethylene glycol (107-21-1)				
Surface tension	48.00 mN/m (20 °C)			
Ecology - soil	No (test)data on mobility of the substance available.			
diethylene glycol (111-46-6)				
Surface tension	0.05 N/m			
Log Koo	0.00 (log Koo, SPC PCKOCWIN v4.66, Coloulated value)			

Surface tension	0.05 N/m	
Log Koc	0.00 (log Koc, SRC PCKOCWIN v1.66, Calculated value)	
Ecology - soil Highly mobile in soil.		
denatonium benzoate (3734-33-6)		
Ecology - soil	No (test)data on mobility of the substance available.	
12.5. Other adverse effects		
Effect on the ozone layer	: No known effect on the ozone layer	

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	 Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations. 		
Ecology - waste materials	: Avoid release to the environment.		

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Non Bulk (in quantities under 5,000 lbs in any one inner package): Not regulated by the US DOT

Bulk (in quantities 5,000 lbs or over in any one inner package):

Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol), 9, III
UN-No.(DOT)	: UN3082

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Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.			
Class (DOT)	Ethylene Glycol : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140			
	: III - Minor Danger			
	: 9 - Class 9 (Miscellaneous dangerous materials)			
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203			
DOT Packaging Bulk (49 CFR 173.xxx)	: 241			
DOT Symbols	: G - Identifies PSN requiring a technical name			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit			
-	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			
Other information	: No supplementary information available.			
Transportation of Dangerous Goods				
Refer to current TDG Canada for further Canad	ian regulations			
Transport by sea				
In accordance with IMDG / IMO	n accordance with IMDG / IMO			
Proper Shipping Name (IMDG) : Not regulated by IMDG (in quantites under 5,000 lbs in any one inner package)				
Air transport				
In accordance with IATA / ICAO				
Proper Shipping Name (IATA)	: Not regulated by IATA (in quantites under 5,000 lbs in any one inner package)			
SECTION 15: Regulatory information				
15.1. US Federal regulations				
Service Pro European Vehicles Blue Concent				
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed			
ethylene glycol (107-21-1)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.			
CERCLA RQ	5000 lb(s)			
SARA Section 311/312 Hazard Classes				
diethylene glycol (111-46-6)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
water (7732-18-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
denatonium benzoate (3734-33-6)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
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15.2. International regulations

CANADA

Service Pro European Vehicles Blue Concentrate Antifreeze and Coolant	
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

EU-Regulations

No additional information available

National regulations

Service Pro European Vehicles Blue Concentrate Antifreeze and Coolant
DSL (Canada): The intentional ingredients of this product are listed
ECL (South Korea): The intentional ingredients of this product are listed.
EINECS (Europe): The intentional ingredients of this product are listed
ENCS (Japan): The intentional ingredients of this product are listed

15.3. US State regulations

WARNING:

This product can expose you to ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

ethylene glycol (107-21-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

ethylene glycol (107-21-1)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Revision date

: 06/01/2018

Full text of H-statements:

H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated	
	exposure.	

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SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.