Universal Long Life Antifreeze + Coolant Ready to Use

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)
Revision date: 10/3/2025 Supersedes: 10/3/2025

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : Universal Long Life Antifreeze + Coolant Ready to Use
Product code : 4009G, 400955, 4009275

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Antifreeze,Ready to use product
Restrictions on use : Restricted to professional users

1.4. Supplier's details

Supplier
Petra Automotive Products, Inc.
11085 Regency Green Dr.
Cypress, TX 77429
USA
T (713) 856-5700
www.petraautoproducts.com

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Reproductive toxicity, Category 1B	H360	May damage the unborn child.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (- Ingestion).

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H302 - Harmful if swallowed
H319 - Causes serious eye irritation

		H360 - May damage the unborn child. H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (-Ingestion)
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 hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves, protective clothing, eye protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P330 - Rinse mouth. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical attention. P308+P313 - If exposed or concerned: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without any obvious ignition sources. Published "autoignition" or "ignition" temperatures cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Use of this product in elevated temperature applications should be thoroughly evaluated to assure safe operating conditions.

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Ethylene Glycol	CAS-No.: 107-21-1	45 - 55
Potassium 2-ethylhexanoate	CAS-No.: 3164-85-0	1 - <3
Diethylene glycol	CAS-No.: 111-46-6	<3

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth out with water. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : Causes serious eye irritation. May cause slight irritation to the skin. May cause minor irritation to the respiratory tract and to other mucous membranes. Harmful if swallowed. Symptoms include: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination, Blurred vision, Fatigue, Kidney disorders, Change in urine output, Abdominal pain. May cause damage to organs (kidneys) through prolonged or repeated exposure (Ingestion). May damage the unborn child.

Inhalation : May cause headache, nausea and irritation of respiratory tract.

Skin : May cause skin irritation.

Eyes : May cause minor eye irritation.

Ingestion : Harmful if swallowed. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Blurred vision. Abdominal pain. Kidney disorders. Change in urine output.

Chronic symptoms : May cause damage to organs kidneys (if swallowed). May damage the unborn child.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : If the quantity swallowed is significant : Obtain emergency medical attention.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray. Cool down the containers exposed to heat with a water spray.

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

Fire hazard : This product is not classified as flammable or combustible. Could burn but does not ignite readily. On burning: release of carbon monoxide - carbon dioxide.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Ventilate spillage area. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes and clothing. Stop leak if safe to do so. Keep unnecessary and unprotected personnel away from the spillage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures	:	Ventilate spillage area. Avoid breathing mist, spray, vapors. Avoid contact with eyes, skin and clothing. Do not touch or walk on the spilled product. Wear suitable protective clothing. Stop leak if safe to do so. Only qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Environmental precautions	:	Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	:	Take up liquid spill into absorbent material. Clean up any spills as soon as possible, using an absorbent material to collect it. Clean contaminated surfaces with an excess of water.
Other information	:	Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Harmful or Fatal if Swallowed. . Do not ingest. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, spray, vapors. Avoid repeated or prolonged skin contact. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. Empty containers retain product residue and can be hazardous. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Do not re-use empty containers without proper cleaning or reconditioning.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	:	Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without any obvious ignition sources. Published "autoignition" or "ignition" temperatures cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Use of this product in elevated temperature applications should be thoroughly evaluated to assure safe operating conditions.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions	:	Keep container closed when not in use. Store in a well-ventilated place. Store away from heat. Keep cool.
Incompatible materials	:	Strong acids. Strong oxidizers. Materials reactive with hydroxyl compounds.
Specific end uses	:	Antifreeze.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Ethylene Glycol (107-21-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethylene glycol
ACGIH® TLV® TWA	25 ppm (V - Vapor fraction)
ACGIH® TLV® STEL	10 mg/m³ (I - Inhalable particulate matter, H - Aerosol only)

Ethylene Glycol (107-21-1)	
	50 ppm (V - Vapor fraction)
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

Diethylene glycol (111-46-6)	
USA - AIHA - Occupational Exposure Limits	
WEEL TWA	10 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls : Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Wear suitable gloves resistant to chemical penetration

Eye protection:
Splash goggles

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Thermal hazard protection:

Not applicable.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear. greenish yellow to yellowish green.
Color	:	greenish yellow to yellowish green
Odor	:	Mild odor Characteristic
Odor threshold	:	No data available
pH	:	8 – 9
Melting point	:	Not applicable
Freezing point	:	-37 °C
Boiling point	:	108 °C
Flash point	:	116 °C Ethylene glycol
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	< 0.1 mm Hg at 20°C
Relative vapor density at 20°C	:	No data available
Relative density	:	1.06
Density	:	1.06 kg/l
Solubility	:	Soluble. Water: 100 %
Partition coefficient n-octanol/water (Log Pow)	:	No data available

Auto-ignition temperature	:	400 °C Ethylene glycol
Decomposition temperature	:	Not determined
Viscosity, kinematic	:	Not determined
Explosion limits	:	Lower explosion limit: 3.2 vol % Ethylene glycol Upper explosion limit: 15.3 vol % Ethylene glycol
Explosive properties	:	Not determined.
Oxidizing properties	:	None.
Particle characteristics	:	Particle characteristics : Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with (strong) oxidizers. May generate heat, gases.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizers. Strong acids. Materials reactive with hydroxyl compounds.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Universal Long Life Antifreeze + Coolant Ready to Use	
ATE US (oral)	944.956 mg/kg body weight

Ethylene Glycol (107-21-1)	
LD50 oral rat	7712 mg/kg
LD50 oral	500 mg/kg Converted acute toxicity point estimate
LD50 dermal rat	3500 mg/kg LD50 dermal mouse
LC50 Inhalation - Rat (Dust/Mist)	> 2.5 mg/l/4h

Potassium 2-ethylhexanoate (3164-85-0)	
LD50 oral rat	≥ 2400 – ≤ 4000 mg/kg Read-across

Potassium 2-ethylhexanoate (3164-85-0)	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402 method)

Diethylene glycol (111-46-6)	
LD50 oral rat	16500 mg/kg
LD50 oral	500 mg/kg (Converted acute toxicity point estimate)
LD50 dermal rabbit	13300 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 4.6 mg/l/4h No deaths occurred at this concentration

Skin corrosion/irritation : Not classified
pH: 8 – 9

Ethylene Glycol (107-21-1)	
pH	6 – 7.5 Source: GESTIS

Serious eye damage/irritation : Causes serious eye irritation.
pH: 8 – 9

Ethylene Glycol (107-21-1)	
pH	6 – 7.5 Source: GESTIS

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Ethylene Glycol (107-21-1)	
NOAEL (chronic,oral,animal/male,2 years)	1500 mg/kg body weight

Diethylene glycol (111-46-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight

Reproductive toxicity : May damage the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (- Ingestion).

Ethylene Glycol (107-21-1)	
Additional information	kidneys
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Potassium 2-ethylhexanoate (3164-85-0)	
NOAEL (subchronic,oral,animal/male,90 days)	180 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:
NOAEL (subchronic,oral,animal/female,90 days)	205 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:

Diethylene glycol (111-46-6)	
LOAEL (oral,rat,90 days)	40000 mg/kg body weight
NOAEL (oral,rat,90 days)	936 mg/kg bodyweight/day

Aspiration hazard : Not classified

Universal Long Life Antifreeze + Coolant Ready to Use	
Viscosity, kinematic	Not determined

Symptoms/effects	:	Causes serious eye irritation. May cause slight irritation to the skin. May cause minor irritation to the respiratory tract and to other mucous membranes. Harmful if swallowed. Symptoms include: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination, Blurred vision, Fatigue, Kidney disorders, Change in urine output, Abdominal pain. May cause damage to organs (kidneys) through prolonged or repeated exposure (Ingestion). May damage the unborn child.
Inhalation	:	May cause headache, nausea and irritation of respiratory tract.
Skin	:	May cause skin irritation.
Eyes	:	May cause minor eye irritation.
Ingestion	:	Harmful if swallowed. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Blurred vision. Abdominal pain. Kidney disorders. Change in urine output.
Chronic symptoms	:	May cause damage to organs kidneys (if swallowed). May damage the unborn child.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute)	:	Not applicable.
Hazardous to the aquatic environment, long–term (chronic)	:	Not applicable.

Ethylene Glycol (107-21-1)	
LC50 - Fish [1]	> 72860 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 96h - Algae [1]	3536 mg/l
EC50 96h - Algae [2]	6500 – 13000 mg/l Pseudokirchneriella subcapitata
ErC50 algae	> 10000 mg/l
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

Potassium 2-ethylhexanoate (3164-85-0)	
LC50 - Fish [1]	> 100 mg/l Oryzias latipes (Ricefish)
EC50 - Crustacea [1]	910 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	49.3 mg/l Desmodesmus subspicatus
LOEC (chronic)	63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Diethylene glycol (111-46-6)	
LC50 - Fish [1]	75200 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	62630 mg/l Daphnia magna (Water flea)
EC50 96h - Algae [1]	6500 – 13000 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Universal Long Life Antifreeze + Coolant Ready to Use	
Persistence and degradability	No additional information available.

Ethylene Glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.

Potassium 2-ethylhexanoate (3164-85-0)	
Persistence and degradability	Rapidly degradable

Diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Ethylene Glycol (107-21-1)	
Partition coefficient n-octanol/water (Log Pow)	-1.36

Diethylene glycol (111-46-6)	
Partition coefficient n-octanol/water (Log Kow)	1.5

12.4. Mobility in soil

Ethylene Glycol (107-21-1)	
Mobility in soil	0.2 Source: HSDB

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : None known.
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of in accordance with applicable federal, state, and local regulations.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN3082	Not regulated	Not regulated	Not regulated
14.2. Proper Shipping Name			
Environmentally hazardous substances, liquid, n.o.s. (Ethylene glycol)	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
9	Not regulated	Not regulated	Not regulated
	Not regulated	Not regulated	Not regulated

DOT	TDG	IMDG	IATA
14.4. Packing group			
III	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Dangerous for the environment: No	Not regulated	Not regulated	Not regulated
Containers with less than the RQ can be shipped as unregulated.			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3082

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

Universal Long Life Antifreeze + Coolant Ready to Use	
SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ethylene Glycol	CAS-No. 107-21-1	45 - 55%

Ethylene Glycol (107-21-1)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

Ethylene Glycol (107-21-1)
Listed on the Canadian DSL (Domestic Substances List)

Potassium 2-ethylhexanoate (3164-85-0)
Listed on the Canadian DSL (Domestic Substances List)

Diethylene glycol (111-46-6)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Universal Long Life Antifreeze + Coolant Ready to Use
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Listed on the Canadian DSL (Domestic Substances List)

Potassium 2-ethylhexanoate (3164-85-0)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Diethylene glycol (111-46-6)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

15.3. 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.

Component	State or local regulations
Ethylene Glycol(107-21-1)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)
Revision date : 10/3/2025

Full text of hazard classes and H-statements	
H302	Harmful if swallowed
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

Indication of changes:
New SDS.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.