



SAFETY DATA SHEET
According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083725

AEL COOLANT 50/50

Date of the previous version: 2015-10-13

Revision Date: 2016-03-02

Version 1.02

1. IDENTIFICATION

Product identifier

Product name AEL COOLANT 50/50

Other means of identification

Product Code(s) 083725

Number 7OG

Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Coolant.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

Emergency telephone number

Emergency telephone +1 866 928 0789 (24h/24, 7d/7)
+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral - Category 4
Reproductive toxicity - Category 2
Specific target organ systemic toxicity (repeated exposure) - Category 2

Label elements

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**DANGER**

Harmful if swallowed
 May cause damage to organs through prolonged or repeated exposure
 Suspected of damaging fertility or the unborn child

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

None known

Other information

Physical-Chemical Properties No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

Chemical Name	CAS-No	Weight %
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Monoethyleneglycol	107-21-1	45 – 95
sodium 2-ethylhexanoate	19766-89-3	1 – 5
2,2'-oxydiethanol	111-46-6	0-5

** The exact percentage (concentration) of composition has been withheld as a trade secret*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. Consult a physician. If not breathing, give artificial respiration.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact	Causes mild skin irritation. May be harmful in contact with skin.
Eye contact	May cause temporary eye irritation.
Inhalation	Vapors may irritate throat and respiratory system.
Ingestion	Harmful if swallowed.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty breathing. Itching.

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

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry powder. Use: Carbon dioxide (CO ₂). Foam. Water spray. Sand.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.

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Special Hazard

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

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. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information Ensure adequate ventilation. For personal protection see section 8.

Other information See Section 12 for additional information.

Environmental precautions

General Information Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for cleaning up Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product.

Hygiene measures When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing vapors, mist or gas.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

Materials to Avoid Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases.

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Physical State @20°C

liquid

Odor

No information available

Odor Threshold

No information available

PropertyValuesRemarksMethod

pH

8.2 - 8.8

Melting point/range

No information available

Boiling point/boiling range

No information available

Flash point

> 120 °C
> 250 °FCleveland Open Cup (COC)
Cleveland Open Cup (COC).

Evaporation rate

No information available

Flammability Limits in Air

No information available

upper

-

No information available

Lower

-

No information available

Vapor Pressure

No information available

Vapor density

No information available

Relative density

1.068

@ 20 °C

ASTM D 1298

Density

1066 kg/m³

@ 20 °C

ASTM D 1298

Water solubility

Not applicable

Solubility in other solvents

No information available

logPow

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity, kinematic

No information available

Explosive properties

Not explosive

Oxidizing Properties

Not applicable

Possibility of hazardous reactions

None under normal processing

Other information

Specific Gravity

1.068

@ 15 °C

Freezing Point

-40 - -36.4 °C

No information available

10. STABILITY AND REACTIVITYReactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks. Take precautionary measures against static discharges.

Incompatible Materials

Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases.

Hazardous Decomposition Products None under normal use.**11. TOXICOLOGICAL INFORMATION**

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Information on likely routes of exposure

Principle Routes of Exposure	Inhalation, Ingestion, Eye contact, Skin contact.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty breathing. Itching.
Skin contact	Causes mild skin irritation. May be harmful in contact with skin.
Eye contact	May cause temporary eye irritation.
Inhalation	Vapors may irritate throat and respiratory system.
Ingestion	Harmful if swallowed.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Acute toxicity - Product Information**

Product Information	Harmful if swallowed
Oral ATEmix (oral)	526 mg/kg
Dermal ATEmix (dermal)	3812 mg/kg
Inhalation ATEmix (inhalation-dust/mist)	5.7 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethyleneglycol 107-21-1	LD50 7712 mg/kg Oral (Rat)	LD50 > 3500 mg/kg Dermal (Mouse)	LC50(6h) >2.5 mg/l Inhalation (Rat)
2,2'-oxydiethanol 111-46-6		LD50 13300 mg/kg bw (rabbit)	LC50 (4h) > 4.6 mg/l (rat - aerosol)

Skin corrosion/irritation	Not classified.
Sensitization	Not classified as a sensitizer.
Carcinogenicity	This product is not classified carcinogenic.

Mutagenicity	No known effect based on information supplied.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Aspiration Hazard	Not classified.

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12. ECOLOGICAL INFORMATIONEcotoxicity**Acute aquatic toxicity - Product Information**

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Monoethyleneglycol 107-21-1	EC50(48h) >10000 mg/l	LC50 (95h) 72860 mg/l (Phimephales promelas) LC50(96h) 18500 mg/l (Rainbow trout) EC50(96h) 6500-13000 mg/l (Selenastrum capricornulum)	EC50(48h) >100 mg/l Daphnia magna (OECD 202)	
2,2'-oxydiethanol 111-46-6	EC50 (96h) 9362 mg/l (green algae)	LC50 (96h) 75200 mg/l (Pimephales promelas)	EC100 (24h) >10000 mg/l (Daphnia magna) EC50 (24h) >10000 mg/l (Daphnia magna)	

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

No information available

Effects on terrestrial organisms No experimental data available .Persistence and degradability**General Information** No information available.Bioaccumulative potential**Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Monoethyleneglycol 107-21-1	-1.36

Mobility

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Soil No information available
Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods 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

TDG Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

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International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:

U.S.A. (TSCA)
Canada (DSL/NDSL)
Europe (EINECS/ELINCS/NLP)
China (IECSC)
Japan (ENCS)
Philippines (PICCS)
New Zealand (NZIoC)
Korea (KECL)
Australia (AICS)

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Monoethyleneglycol	107-21-1	45-95	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Monoethyleneglycol	107-21-1	45 – 95		Group I		
2,2'-oxydiethanol	111-46-6	0-5		Group I		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Monoethyleneglycol	5000 lb	

U.S. State Regulations

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California Proposition 65

This product contains chemicals known to the State of California to cause cancer or reproductive toxicity

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Monoethyleneglycol 107-21-1	X	X	X	X
2,2'-oxydiethanol 111-46-6			X	

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2016-03-02
 Revision Note: *** Indicates updated section

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

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Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet

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