

SECTION 1 Identification**1.1. GHS Product identifier**

Product form : Mixture
Trade name : OAT NF ELC ANTIFREEZE
Product code : 71155 (Yellow 50/50), 71164 (Yellow 60/40), 71155R (Red 50/50), 71164R (Red 60/40), 71155B (Blue 50/50)

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Antifreeze, Engine coolant
Restrictions on use : All other uses not recommended above

1.4. Supplier's details

MOLEC LUBRICANTS
68567 HWY 858
PLAMONDON, AB T0A 2T0
Canada
T 780-798-2224
sds@moleclubricants.com

1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
CCN 997999
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

SECTION 2 Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Specific target organ toxicity, Repeated exposure, Category 2	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral, Dermal).

Full text of H statements : see section 16

2.2. GHS label elements, including precautionary statements**GHS CA labeling**

Hazard pictograms (GHS CA) : 

Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H319 - Causes serious eye irritation
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral, Dermal).

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according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272

Precautionary statements (GHS CA) : P260 - Do not breathe mist, spray, vapors.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye and face protection.
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 advice or attention.
P314 - Get medical advice or attention if you feel unwell.
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. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Ethylene Glycol	Ethanediol, ethylene glycol	CAS-No.: 107-21-1	50 – 55	Eye Irrit. 2A, H319 STOT RE 2, H373
Dodecanedioate	Dodecanedioic acid	CAS-No.: 693-23-2	< 3	Eye Irrit. 2A, H319 Aquatic Chronic 3, H412

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

Comments : The concentration ranges are provided due to batch-to-batch variability.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

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 experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin areas 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 : IF IN EYES: Rinse cautiously with water for several 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 : Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical advice/attention if you feel unwell.

First-aid measures general : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth. Call a poison center/doctor/physician if you feel unwell.

Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

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Symptoms/effects after skin contact	: Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause damage to organs (kidneys) through prolonged or repeated exposure.
Chronic symptoms	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral, Dermal).

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

Other medical advice or treatment	: IF exposed or concerned: Get medical advice/attention.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: The product is not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Large fires: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting devices or discoloration from tank. ALWAYS stay away from tanks engulfed in fire. For a massive fire, use unmanned hose holders or monitor nozzles, or withdraw from the area and allow fire to burn. Prevent fire-fighting water from entering environment.
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	: Avoid all personal contact including breathing in the mist, spray, vapors. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Environmental precautions	: Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	: Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Notify authorities if product enters sewers or public waters. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Do not breathe mist, spray, vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
Additional hazards when processed	: If spilled, may cause the floor to be slippery.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a cool, dry and well-ventilated area away from incompatible substances. Store containers in location free from fire risk and away from sources of heat and ignition. Protect from sunlight. Keep away from food, drink and animal feedings. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Incompatible materials	: Strong acids, strong bases and strong oxidants.
Heat-ignition	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage temperature	: ≤ 111 °C / 231.8 °F
Packaging materials	: Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Ethylene Glycol (107-21-1)

Canada (Alberta) - Occupational Exposure Limits

Local name	Ethylene glycol
OEL C	100 mg/m ³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021

Canada (Quebec) - Occupational Exposure Limits

Local name	Ethylene glycol (vapour and mist)
Plafond (OEL C)	127 mg/m ³ 50 ppm
Notations and remarks	RP
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety

Canada (British Columbia) - Occupational Exposure Limits

Local name	Ethylene glycol
OEL TWA	10 mg/m ³ Total, aerosol only
OEL STEL	20 mg/m ³ Total, aerosol only
OEL C	100 mg/m ³ Total, aerosol only 50 ppm Vapour

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Ethylene Glycol (107-21-1)	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Ethylene glycol
OEL TWA	25 ppm (V - Vapor fraction)
OEL STEL	10 mg/m ³ (I - Inhalable particulate matter, H - Aerosol only)
	50 ppm (V - Vapor fraction)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Ethylene glycol
OEL TWA	25 ppm (V - Vapor fraction)
OEL STEL	10 mg/m ³ (I - Inhalable particulate matter, H - Aerosol only)
	50 ppm (V - Vapor fraction)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Ethylene glycol
OEL TWA	25 ppm (V - Vapor fraction)
OEL STEL	10 mg/m ³ (I - Inhalable particulate matter, H - Aerosol only)
	50 ppm (V - Vapor fraction)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Ethylene glycol, (as an aerosol)
OEL C	100 mg/m ³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Ethylene glycol, (as an aerosol)
OEL C	100 mg/m ³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Ethylene glycol
OEL C	100 mg/m ³ (H - Aerosol only)
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents

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Ethylene Glycol (107-21-1)

Canada (Prince Edward Island) - Occupational Exposure Limits

Local name	Ethylene glycol
OEL TWA	25 ppm (V - Vapor fraction)
OEL STEL	10 mg/m ³ (I - Inhalable particulate matter, H - Aerosol only)
	50 ppm (V - Vapor fraction)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

Canada (Saskatchewan) - Occupational Exposure Limits

Local name	Ethylene glycol, (as an aerosol)
OEL C	100 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Wear safety glasses which protect from splashes

Skin and body protection:

Body protection should be chosen depending on activity and possible exposure

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Personal protective equipment symbol(s):



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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Fluid.
Color	: Yellow Red Blue
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: < 0.01
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: -13 °C / 9 °F (Ethylene glycol)
Boiling point	: 197 °C / 387 °F (Ethylene glycol)
Flash point	: 111 °C / 232 °F (Ethylene glycol)
Auto-ignition temperature	: 398 °C / 748 °F (Ethylene glycol)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.11 @ 25 °C / 77 °F (Ethylene glycol)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: -1.36 @ 20 °C / 68 °F (Ethylene glycol)
Viscosity, kinematic	: 18.86 mm ² /s @ 20 °C / 68 °F
Viscosity, dynamic	: 21 mPa·s @ 20 °C / 68 °F
Explosion limits	: Lower explosion limit: 3.2 Vol-% Ethylene glycol Upper explosion limit: 21.6 – 22 Vol-% Ethylene glycol
Particle characteristics	: No data available

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

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: No flames, no sparks. Eliminate all sources of ignition. Incompatible materials. Protect from sunlight.
Incompatible materials	: Strong acids, strong bases and strong oxidants.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Dodecanedioate

LD50 oral rat	> 3000 mg/kg
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Dodecanedioate	
LD50 dermal rabbit	> 6000 mg/kg body weight
Ethylene Glycol	
LD50 oral rat	4700 mg/kg body weight
LD50 oral	6140 mg/kg
LD50 dermal rat	9530 mg/kg body weight
LD50 dermal	> 3549 mg/kg
Skin corrosion/irritation	: Not classified
Ethylene Glycol	
pH	6 – 7.5
Skin corrosion/irritation, rabbit	Not irritating to skin
Serious eye damage/irritation	: Causes serious eye irritation.
Ethylene Glycol	
pH	6 – 7.5
Serious eye damage/irritation, rabbit	<40% Irritating to eyes (Fully reversible effects within 7 days of observation)
Respiratory or skin sensitization	: Not classified
Ethylene Glycol	
Guinea pig maximization test	Not sensitive
Skin sensitization, human	Not sensitive
Germ cell mutagenicity	: Not classified
Ethylene Glycol	
Germ cell mutagenicityDominant lethal test, rat	Negative
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral, Dermal).
Dodecanedioate	
NOAEL (oral,rat,90 days)	1800 mg/kg body weight
Ethylene Glycol	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral, Dermal).
Aspiration hazard	: Not classified
OAT NF ELC ANTIFREEZE	
Viscosity, kinematic	18.86 mm ² /s @ 20 °C / 68 °F
Ethylene Glycol	
Viscosity, kinematic	14.459 mm ² /s
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause damage to organs (kidneys) through prolonged or repeated exposure.

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Chronic symptoms : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral, Dermal).

SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified.

Dodecanedioate	
LC50 - Fish [1]	135.677 mg/l
EC50 72h - Algae [1]	> 38.6 mg/l
EC50 96h - Algae [1]	105.404 mg/l

Ethylene Glycol	
LC50 - Fish [1]	> 72860 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 1000 mg/l
EC50 96h - Algae [1]	6500 – 13000 mg/l
NOEC chronic fish	32000 mg/l 7 days
NOEC (chronic)	≥ 1000 mg/l
NOEC chronic crustacea	24000 ml/l (48h)

12.2. Persistence and degradability

OAT NF ELC ANTIFREEZE	
Persistence and degradability	Not established.

Dodecanedioate	
Persistence and degradability	Not rapidly degradable

Ethylene Glycol	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

OAT NF ELC ANTIFREEZE	
Partition coefficient n-octanol/water (Log Kow)	-1.36 @ 20 °C / 68 °F (Ethylene glycol)

Dodecanedioate	
Partition coefficient n-octanol/water (Log Pow)	3.17

Ethylene Glycol	
Bioaccumulative potential	Does not bioaccumulate.
Partition coefficient n-octanol/water (Log Pow)	-0.337

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12.4. Mobility in soil

Ethylene Glycol

Mobility in soil	0.2
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.

SECTION 14 Transport information

In accordance with TDG / IMDG / IATA

TDG	IMDG	IATA
14.1. UN Number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group, if applicable		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

TDG
Not regulated

IMDG
Not regulated

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IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Dodecanedioate (693-23-2)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene Glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

Dodecanedioate (693-23-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethylene Glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16 Other Information

Issue date : 02-24-2026

Full text of hazard classes and H-statements:

H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects

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.