NA

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME SCOPE RADIATOR COOLANT/ANTIFREEZE SAE

Product Use Radiator coolant and antifreeze Product Number

Uses advised against: No additional information available

Company Identification

United Grease and Lubricants Co LLC, PO Box 2685, Ajman, United Arab Emirates. Www.unitedgrease.com

Transportation Emergency Response Health Emergency Product Information (971)(54) 2171575 (971)(54)2171575 (971)(54)2171575

SECTION 2 HAZARDS IDENTIFICATION

Classification Not classified as hazardous according to 29 CFR 1910.1200 (2012)

Hazards Not Otherwise Classified Not applicable

EC Index No N/A EC No N/A CAS No N/A REACH Registration No N/A

SECTION 2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Acute Toxicity (Oral) Category 4 H 302

Specifc target organ toxicity - Repeated exposure, Cat 2 - H 373

Full text of H and EUH statements: See Section 16

Adverse Physico-chemical, human health and environmental effects

Hamrful If swalloed. May cause damage to organs (Kidneys) through prolonged and repeated

exposure (Oral)

Hazard Pictograms (CLP)

GHS07 GHS08

Warning Not applicable

Contains Ethanediol, ethylyne glycol
Hazardous Statements (CLP) H 302 - Harmful if swallowed

H 373 - May cause damage to organs (kidneys) thorough

prolonged of repeated exposure (Oral)

Precautionary statements (CLP) P 101 - If medical advice is needed, have product container or

label at hand

P 102 - Keep out of reach of children

P260 - Do not breath vapours

P 264- Wash hands thoroughly after handling

P 301+P312 - IF SWALLOWED - Call a POISON CENTER, a doctor

if you feel unwell

P 501 - Disposes off contents/container according to national

or loval regulations

Other hazards (not relevant for classification)

Other hazards not contributing to the classificiation: The vapours are heavier than air and will accumulate in closed areas and at ground level with backfire hazard. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Any substance, in case of accidents involving pressurised circuits and the like, may be accidentally, injected under the skin, even without external damage. In such a case, the victim should be bought to a hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop

This substance/mixuture does not meet the PBT criteria of REACH regulation, , Annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII Contains no PBT/vPvB substances ≥0.1@ assessed in accordance with REACH Annex XIII

Component		
Ethanediol, ethylene	This substance/mixture does not meet the PBT criteria of	
glycol (107-21-1)	REACH Regulation, Annex XIII	
	This substance/mixture does not meet the vPvB criteria of	
	REACH Regulation, Annex XIII	
2-ethylhexanoic acid and its	This substance/mixture does not meet the PBT criteria of	
salts, with the exception	REACH Regulation, Annex XIII	
of those specificed else-	This substance/mixture does not meet the vPvB criteria of	
where in this Annex	REACH Regulation, Annex XIII	

This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentration

Component	
Ethanediol, ethylene	This substance is not included in the list established in accordiance
glycol (107-21-1)	with article 59(1) of the REACH for having endocrine disrupting
	properties, or is not indendified as having endocrine disrupting
	properties in accordance with the criteria set out in the
	Commission Delegated Regulation (EU) 2017/2100 or Commission
	Regulation (EU) 2018/605
2-ethylhexanoic acid and its	This substance is not included in the list established in accordiance
salts, with the exception	with article 59(1) of the REACH for having endocrine disrupting
of those specificed else-	properties, or is not indendified as having endocrine disrupting
where in this Annex	properties in accordance with the criteria set out in the
	Commission Delegated Regulation (EU) 2017/2100 or Commission
	Regulation (EU) 2018/605

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS (SUBSTANCES)

Not applicable

3.2 Mxtures Composition/Information on ingredients

Ethylene Glycol Rust Inhibitor Water

Name	Product Identifier	%	Classification according to 1272/2008
Ethanediol, ethylene glycol	CAS 107-21-1	80-97	Axute Tox 4 (oral)
	EC 203-473-3		H 302 (ATE=500 mg/kg
	ECINo. 603-027-00-1 REACH No. 01 2119456816-		or body weight
	28		STOT RE 2, H 373
2-ethylhexanoic acid and its		<3	Repr 2, H 361D
salts, with the exception	EC Index No. 607-230-00-6:		
of those specificed else-	Reach No. 01-2119488942-		
where in this Annex	23		

Full text of H and EUH statements are in section 16

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Revision Date	25/07/2023	Product SCOPE RADIATOR COOLANT/ANTIFREEZE				

SECTION 4 - First Aid Measures

General In case of any doubt or persistent symptions, consult a physician

inhalation Not expected to present a significant hazard under anticipated conditions of normal

use. If casualty is unconcious and not breathing, place in the recovery position In case of disturbances owing to inhalation or vapours or mists, remove the victim

from exposure; keep at rest; if necessary seek medical attention

Skin Take off contaminated clothing and shoes. Wash thoroughly with soap and water.

Contact If inflammation or irritation persists, seek medical advice.

Eye contact Remove contact lenses, ir present and easy to do so. Rinse eyes thoroughly for at

least 15 minutes. Keep eyelids wide apart. If irritation, blurred vision or swelling

occurs and persists, obtain medical advice from a specialist

Ingestion Rinse mouth thoroughly with water. In case of spontaneous vomitting, keep

head low, to avoid the risk of aspiration into the lungs. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Send the casualty immediately to a hospital

Most important symptoms and effects, both acute and delayed

Systems/Injuries after inhalation

None under normal conditions at ambient temperatures

Systems/Injuries after skin contact Prolonged or repeated skin contact may cause a

slight transient irritation

Symptoms/injuries after ingestion

Harmful if swallowed, Ingestion of significant quantites (see section 11) may cause kidney damages, coma and death. The effects may be delayed

Symptoms/injuries upon intravenous administration No information available

Chronic symptoms May cuase damage to kidneys through prolonged or repeated

exposure if swallowed

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Obtain medical attention if casualty has an altered

state of consciousness or if symptons do not resolve

No information available.

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth.

SUITABLE Large fires - alcohol resistant foam or water fog (mist)

These means should be used by trained personnel only Other extinguishing gases (according to regulations)

UNSUITABLE none specific

EXTINGUISHING Simultaneous use of foam and water on the same surface is to avoided as MEDIA water fog (mist). These means should be used by trained personnel

Special hazards arising from the substance or mixture

Fire Hazard Not flammable. The vapours are denser than air and may travel along the ground

Distance ignition possible

Explosion Hazard No direct explosion hazard. Heat may build pressure in tank and containers.

Rupturing closed vessels, spreading fire and increasing risk of burns and injuries

Hazardous decomposition products in case of fire

Incompelte combustion releases dangerous carbon monoxide, carbon di oxide

and other toxic gases. Oxygenated compounts (aldehydes etc.)

Advice for firefighters

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Firefighting instructions

Shut off source of product, if possible. If possible, move containers and drums

away from danger area. Spilled product which is not burning should be covered

with sand or foam. Use water sprays to cool containers and surfaces exposed

to the flames. If the fire cannot be controlled, evacuate area

Special protective equipment for firefighters

Wear personal protection equipment (see chapter 8). DO not enter fire area without proper protective equipment, including respiratory protection EN 443

EN 469 or EN 659. In case of a large fire or in confined or poorly ventalated

spaces, wear full fire resistant protection clothing and self containing breathing apparatus (SCBA), with a full face-piece operated in positive

pressure mode

Other information In case of fire, do not discharge residual product, waste materials and run

off water. Collect separately and use a proper treatment

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources

if safe to do so (e.g. electricity, sparks, fires, flares). Avoid contact

with released material

For Non emergency Personnel

Protective Equipment

See section 8

Emergency Procedures

Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

For Emergency Responders

Protective equipment

Small spillages: normal antistatic working clothes are usually adequate.

Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical esistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work

helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter for organic vapours (and when applicable for H2S). A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an

oxygen deficiency is possible, only SCBA's should be used.

Emergency Procedures
Environmental precautions

Notify local authorities according to relevant regulations.

Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved

compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

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Methods and material for containment and cleaning up

For containment Soil. Contain spilled liquid with sand, earth or other suitable absorbents

(nonflammable). Recover free liquid and waste materials in suitable waterproof

and oil resistant containers. Clean contaminated area. Dispose of according to local regulations. Water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant

containers. Recover or dispose of according to local regulations.

Other Information Do not use solvents or dispersants, unless specifically advised by an expert,

and, if required, approved by local authorities. Recommended measures

are based on the most likely spillage scenarios for this material; however, local

conditions (wind, air temperature, wave/current direction and speed)

may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

Reference to other sections

For furthr information refer to section 8 'Exposure controls/personnel protection. For further

information, refer to section 13

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Provide good ventilation n process area to prevent formation of vapour Keep away from sources of ignition No smoling. Sotre in dry, well

ventilated area. Do not breathe fune/mist/vapours

Hygeine Measures Ensure that all relevant regulations regarding handling and storage

with skin. Do not breathe fume/mist/vapours. Do not ingest. Do not smoke Donot eat and do not drink during usage. Do not clean hands with dirty or oil soaked rags. Do not re use clothes, if they are still contaminated. Keep away from food and beverages. Wash hands and other exposed areas with mild soap and water befor eating, drinking or smoking and

when leaving work. Contaminated work clothing should not be

allowed out of the workplace. Separate working clothes from town clothes

Launder separately

Conditions for safe storage, including any incompatibilities

Stoage conditions Store in dry, well ventilated area. Keep away from open flames, hot

surfaces and sources of ignition. Do not smoke.

If product is supplied in containers, keep only in the original container or in a suitable container for this kind of product. Keep containers

tightly closed and properly labelled

Incompatible Products Strong acids, strong oxidants. Strong bases/alkalies

Incompatible materialsDo not use zinc containers. Use only the original containers or others that

have been approved for this product.

Storage area Storage area layout, tank design, equipment and operating procedures must

comply with the local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel

as defined by national, local or company regulations.

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Package and Containers Store away from direct sunlight or other heat sources. Do not reuse empty

containers

Packaging Materials Store in glass, stainless steel or aluminium containers. Some synthetic

materials may be unsuitable for containers or container linings depending upon material specification and intended use. Use PTFE, Polyethylene, Polypropylene, Natural rubber. Compatibility should be checked with

the manufacturer, according to specifc use conditions

Specific End Uses No information available

ecific End Uses No Information available				
SECTION 8 - EXPOSURE CONTROLS/PERSONA				
Natioinal occupational exposure and biologic	al limit values			
Ethanediol: Ethylene Glycol (107 21 1)				
EU Indicative Occupational Expsoure Limit (IC	Indicative Occupational Expsoure Limit (IOEL)			
Local name	Ethylene Glycol			
IOEM TWA	52 mg/m ³ vapours			
IOEL LV TWA (ppm)	20 ppm			
IOEL LV STEL (Mg/M3)	104 mg/m ³ vapours			
IOEL LV STEL (ppm)	40 ppm			
Notes	Skin			
Regulatory reference	Commission Directive 2000/39/EC			
2-ethylhexanoic acid and its salts, with the ex	cception of those specifiied elsewhere in this annex			
Belgium - OEL				
IOEL LV TWA - Belgium	5 mg/m ³ vapours			
IOEL LV TWA - Ireland	4 mg/m ³ vapours			
IOEL LV TWA - USA ACGIH	L LV TWA - USA ACGIH 5 mg/m³ vapours			
r contaminants formed No additional information available				
DNEL AND PNEC				
SCOPE ANTIFREEZE/FREEZO/RADIATOR COOLANT				
DNEL/DMEL (additional information)				
Additional information	Not applicable			
PNEC				
Additional information	Not applicable			
Ethanediol: Ethylene Glycol (107 21 1)				
DNEL/DMEL (Workers)				
Long term - systemtic effects, dermal	106 mg/kg bodyweight/day			
Long term local effects inhalation	35mg/m ³			
DNEL/DMEL (General Population)				
Acute, local effects, inhalation	7mg/m ³			
long term systemic effects, dermal	53 mg/kg bodyweight/day			
PNEC Water				
PNEC Aqua, fresh water	10 mg/L			
PNEC Aqua, marine water	1 mg/L			
Invest				
PNEC Aqua, intermittent fresh water	10 mg/L			
PNEC Sediment	10 mg/L			
	37 mg / kg dwt 3.7 mg / kg dwt			

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MATERIAL SAFETY DATA SHEET				
PNEC Soil				
PNEC soil	1.53 mg / kg dwt			
PNEC STP				
PNEC Sewage treatment plant	199.5 mg / kg dwt			
2-ethylhexanoic acid and its salts, with the exception of thos	se specifiied elsewhere in this annex			
Ethanediol: Ethylene Glycol (107 21 1)				
DNEL/DMEL (Workers)				
Long term - systemtic effects, dermal	2mg/kg bodyweight/day			
Long term local effects inhalation	14 mg/m ³			
DNEL/DMEL (General Population)				
Acute, local effects, inhalation	3.5 mg/m ³			
long term systemic effects, dermal	1 mg/kg bodyweight/day			
Long term systemic effects, oral	1 mg/kg bodyweight/day			
PNEC Water				
PNEC Aqua, fresh water	398μg/L			
PNEC Aqua, marine water	39.8μg/L			
PNEC Aqua, intermittent fresh water	1 mg/L			
PNEC Sediment				
PNEC sediment, fresh water	4.74 mg / kg dwt			
PNEC sediment, marine water	474 mg / kg dwt			
PNEC Soil				
PNEC soil	712 mg / kg dwt			
PNEC STP				
PNEC Sewage treatment plant	71.7 mg / kg dwt			

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute shortterm exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Control Banding

No additional information available

Appropriate Engineering Controls

Ensure good ventilation of the work station. Minimize exposure to mists/vapours/aerosol

PERSONAL PROTECTIVE EQUIPMENT (for industrial or professional use)

Gloves, Protective clothing, safety glasses, safety shoes or boots

Personal Protective Equipment (Synbol(s):









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Eye/Face Protection Safety gkass DIN EN 166

Skin Protection Long sleeved overalls. If necessary, refer to EN 340 and related standards

for definition of characteristcs and performance according to the risk rating of the area. Wash contaminated clothing before use

for protective gloves include:

Hand Protection Protective gloces, adequate materials, nitrile (NBR) or PVC with a protection

index >5 (permeation time > 240 min). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation If necessary refer to the EM 374 staneards. Thickness of glove mtl >0,4 mm Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing of gloves, hands must be

carefully washed and dried

RespiratoryNo respiratory protection is normally required with sufficient ventilation **Protection**Independently from other substances action (technical modifications,

Independently from other substances action (technical modifications, operating procedures, and other means to limit the expsoure of workers) personal protection equipment can be used according to necessity. Open

or well ventialted spaces; if product is handled without adequate

containkent; use full or half face masks with adequate filter for mists and organic vapours. (En 136/140/145). Closed or confined areas (ex tank interiors), the use of protection measures for airways (masks or self contained breathing apparatus) must be assessed according to the specific activity, as well as level and duration of predicted exposure (EN 136/140/145)

Combination filter device (DIN EN 141). Combined gas/dust mask with

filter type A Filter P (White)

Thermal Hazards None in normal use conditions

Environmental exposure controls

Stoage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed

Consumer expsoure controls

Ensure adequate ventilation

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Attention: The data below are typical values and do not constitute a specification

Color Blue, Green or colorless

Physical State Liquid
Odor Glycol

Odor Threshold No data available

pH 7-9

Vapor Pressure≤ 0.1 mPa (20 deg C)Boiling Point163 to 185 deg C (D 1120)SolubilitySoluble in water, complete

Freezing Point Not applicable
Melting Point No data available

Density 1.108-1.116 kg/L @ 15°C (59°F) (Typical)

Viscosity Not determined Coefficient of Thermal expansion/⁰F No data available

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Evaporation RateNo data availableDecomposition TemperatureNo data availableOctanol/Water Partition CoefficientNo data availableVOC Content0% (EU, CH)FlammabilityNot flammable

Explosive properties None Oxidising properties None

Explosive limits 3 to 53% (Ethylene glyocol)

Lower explosion limit3% for EGUpper explostion limit53% for EGAutoignition temperatureNot determinedLog KowNot determinedRelative densityNot determinedRelative vapour density at 20 deg CNot determinedParticle characteristicsNot determined

Other information

Information with regard to physical hazard classes

Explosion Limits 3 to 53% (Ethylene glyocol)

Other safety characteristics

Bulk density 1.1-1.14 (20 deg C)< D 4052

SECTION 10 - STABILITY AND REACTIVITY

Reactivity This mixuture does not offer any further hazard, except what

is reported in the following paragraphs

Chemical Stability Stabel product according to its intrinsic properties

Incompatibility with Other Materials: Strong oxidants and acids

Hazardous decomposition Products: Oxygenated compounds (aldehydes etc.). CO2/CO

Possibility of Hazardous reactionsNone (in normal conditions of storage and handling).

Conditions to avoid Keep away from open flames, hot surfaces

and sources of ignition. Avoid the build-up of electrostatic charge.

with water, and presence of anaerobic sulfate-reducing microbial colonies),

the product may undergo a degradation and generate small amounts of sulfur

SECTION 101 - TOXICOLOGIAL INFORMATION (mixture)

Acute toxicity (oral) Harmful if swallowed

Acute toxicity (dermal) Not classified (based on available data, the classification criteria are not met)
Acute toxicity (inhalation) Not classified (based on available data, the classification criteria are not met)

Additional Information According to composition - the toxif (fatal) dose for pure EG has been Skin Corrosion/Irritation estimated at 1.4 ml/kg (about 100 ml for an adult person)

The effects may be delayed

The chects may be delayed					
SCOPE ANTIFREEZE/FREEZO/RADIATOR COOLANT					
ATE Oral	515.464 mg/kg of body weight				
Ethanediol ; Ethylene glycol (107-21-1)					
LD 50 Oral rat	7712 mg/kg of body weight				
LC 50 dermal rat	>3500 mg/mg of body weight				
LC 50 inhalation - Rat	.2.5 mg/l (6 hours)				
2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this annex					
LD 50 Oral rat	3640 mg/kg of body weight				
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MATERIAL SAFETY DATA SHEET LC 50 dermal rabbit >2000 mg/mg of body weight Skinc orrosion/irritation Not classified (based on available data, the classification criteria are not met) pH 7to 9 Additional information According to composition Serious eye damage/irritation Not classified (based on available data, the classification criteria are not met) pH 7to 9 Additional information According to composition Respiratory or skin sensitization Not classified (based on available data, the classification criteria are not met) Additional information According to composition Germ cell mutagenicity Not classified (based on available data, the classification criteria are not met) Additional information According to composition Carcinogenicity Not classified (based on available data, the classification criteria are not met) Additional information According to composition Ethanediol; Ethylene glycol (107-21-1) 1500 mg/kg of body weight (Mouse) NOAEL (chronic, oral, animal/male,2 years) Not classified (based on available data, the classification criteria are not met) Reprouctive toxicity Additional information According to composition This product conains a substance (2-ethylhexanoic acid, sodium salt) classified as Repr 2 H 361 (CLP) according to EU Criteria Suspected of damaging the unborn child The actual relevance of these effects in man is not certain STOT Single exposure Not classified (based on available data, the classification criteria are not met) Additional information According to composition STOT repeated exposure Not classified (based on available data, the classification criteria are not met) According to composition Additional information The ethylene glycol in this formualtion may cause intoxication, central nervous system depression(in coordination, dizziness), respiratory failure, level and kidney damage

2-ethylhexanoic acid and its salts, with the exception of those specifiied elsewhere in this annex

NOAEL (orat, rat, 90 days)

300 mg/kg bodyweight.day 12 months

Aspiration hazard May cause damage to organs through prolonged or repeated exposure

Additional information

NOAEL (orat, rat, 90 days)

STOT repeated exposure

SCOPE COOLANT/RADIATOR ANTIFREEZE/FREEZO

Viscosity, kinematic Not determined

Information on other hazards

This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfield as having endocrine disrupting properties in accordance with the criteria set out in Commission

Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom

greater than 0.1%

Potential adverse human Harmful if swallowed. May cause damage to kidneys through prolonged or

repeated exposure if swallowed. Prolonged or repeated skin contact may cause

redenning, iritation and dermatitis

May cause damage to organs through prolonged or repeated exposure

150 mg/kg bodyweight.day 12 months

Other information None

SECTION 12 - ECOLOGICAL INFORMATION

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ECOTOXICITY/Ecolory-General This product is not considered harmful to the aquatic organisms nor to cause long term adverse effects in the environment.

An uncontrolled release to the environment may nevertheless produce a release to the environment may nevertheless produce a contamination of different environmental compartments (soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.

Ecology - Water Short term (acute) and long term (Chronic)

Not classified (based on available data, the classification criteria are not met)

Ethanediol ; Ethylene glycol (107-21-1)				
15380 mg/l (LC 1o-96 h)				
72860 ,g/l (Pimephales promelas)				
8590 ,g/I (EC 10 - 48 H)				
100 mg/l				
3536-13000 mg/l				
≥100 mg/l (EC 10)				
15380-32000 mg/l				
2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this annex				
180 mg/l (Oryzias latipes)				
85.4 mg/l				
49.3 mg/l (desmondesmus subspicatus)				
25 mg/l (21 d)				
PERSISTENCE AND DEGRADABILITY				
SCOPE FREEZO/COOLANT/RADIATOR ANTIFREEZE				

Persistence and degradability

The most significant constituents of the product shuld be

	considered as readily blodegradable
Ethanediol ; Ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable
Biochemical oxygen demand (BOD)	0.36 to 0.4 O ₂ /g of susbtance
Chemical oxygen demand (COD)	1.21 O ₂ /g of susbtance
ThoD	1.26 O ₂ /g of susbtance
2-ethylhexanoic acid and its salts, with the exce	ption of those specifiied elsewhere in this annex
Persistence and degradability	Readily biodegradable
BIO ACCUMULATIVE POTENTIAL	

1 crosscence and degradability	Reduity blodegradable	
BIO ACCUMULATIVE POTENTIAL		
SCOPE FREEZO/COOLANT/RADIATOR ANTIFREEZE		
Log Kow	Not determined	

Bioaccumulative Potential

SCOPE FREEZO/COOLANT/RADIATOR ANTIFREEZE

Not determined
Not determined

Log Kow -1.36

2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this annex

2.7

Mobility in Soil
SCOPE FREEZO/COOLANT/RADIATOR ANTIFREEZE

Mobility in soil ethanediol; ethylyne glycol Ecology Soil No data available

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Results of PBT and vPvB assessment

SCOPE FREEZO/COOLANT/RADIATOR ANTIFREEZE

This substance/mixture does not meet the PBT criteria of REACH regulation, , Annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII

Results of PBT-VpVB assessment

The components inthis formulation do not meet the criteria for

classification as PBT or vPvB. The prodcut should be considered ;Not persistent' in the environment according to the REACH

Annex XIII criteria (Point 1.1)

ENDOCROINE DISRUPTING PROPERTIES

This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not idenfieid as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regular (EU) 2017/2100or Commission Regulation (EU) 2018/605 at a concentratiom greater than 0.1%

Other adverse effects None

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatmentDo not dispose of the product, either new or used, by dumping on the ground, or dischargingmethodsintoseweres, tunnels, lakes or water courses. Deliver to a qualified official collectorSewage disposalDo not apply industrial sludge to natural soils;. Sludge should be incinerated, contained orconsiderationsProduct/PackingDispose off in a safe manner in accordance with local and national regulationsProduct/PackingEuropean Waste Catalogue code (s) (Decision 2001/118/CE): 16 01 14* (ANTIFREEZE FLUIDSdisposal consi-CONTAINING DANGEROUS SUBSTANCES). This EWC code is only a general indication

disposal consi- iderationsCONTAINING DANGEROUS SUBSTANCES). This EWC code is only a general indication and takes into account the original composition of the product and its intended use.

The user has the responsibility of choosing the right EWC code, considering the acutal use

of the product, alterations and contaminations

Additonal Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned

information and declared safe

Ecology- waste The product as it is does not contain halogenated substances

materials

EURAL Code 16 01 14*(antifreeze fluids containing dangerous substances)

(EWC)

SECTION 14 - TRANSPORT INFORMATION

In accordance with ADR/IMDG/IATA/AND/RID

ADR	IMDG	IATA	ADN	RID	
UN Number or ID	Number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
UN Proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Packing Group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Environmental ha	zards		•		
regulated	Not regulated	Not regulated	Not regulated	Not regulated	

Special precautions for user:

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Overland transportNot regulatedTransport by SeaNot regulatedAir transportNot regulatedInland waterway transportNot regulatedRail transportNot regulated

Maritime transport in bulk according to IMO instruments

IBC Code Not applicable

SECTION 15 - REGULATORY INFORMATION (Mixture)

EU Regulations

EU Regulation	ı list	(reach Annex XVIII)		
Reference cod	de	Applicable on		Entry title or description
3(b)	Scop	e freeze/coolant	Subs	stances or mixutures fulfilling the criteria for any of the followng
	antii	freese/ethanediol	haza	rd classes or categories set out in annex 1 to regulation (EC) No
	ethylene glycol,		1272/2008. Hazard classes 3.1 to 3.6. 3.7 adverse effects on sexual	
	2-ethylhexanoic acid		func	tion and fertility or on development, 3.8 effects other
	and its salts, with the		than	narcotic effects, 3.9 and 3.10
	exception of those			
	specified elsewhere			
	in th	is annex		

No ingredients are inlouded in the REACH Candidate list (?0.1% m/m)

Contains no substances listed on REAH Annex XIV (Authorisation list)

Contains no substances listed on the PIC list (Regulation EO 640/2012) concerning the export and import of hazardous chemicals

Contains no substances listed on the POP List (Regulation EU 2019/1012 on persistent organic pollutants Contains no substances listed on the Ozone depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Contains no substances listed on the explosive precursors list (Regulation EU 2019/1148 on the marketing and use of explosive precursors)

Other information, restriction and prohibition regulations

EC No. 1907/2006	EC 1272/2008	67/548/EEC	1999/45/EC	1907/2006	89/931/CEE
89/654/CEE	89/655/CEE	90/269/CEE	90/270/CEE	90/394/CEE	90/679/CEE
93/88/CEE	95/63/CE	97/42/CE	98/24/CE	99/38/CE	99/92/CE
2001/45/CE	2003/10/CE	2003/18/CE	2012/18/CE	2004/42/CE	98/24/EC
98/25/CE	1005/2009	850/2004	79/117/EEC	649/2012	

Contains no substances listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on Mrket of certain substances used in the illicit manufacture of narcotic drums and psychotropic substances

National Regulations

National adoption of EU Directives concerning health and safety on the workplace

Relevant national laws of protection of the health of pregnant workers (national adoption of 92/85/EEC_

National adoption of EU directives concerning control of major-accident hazards involving dangerous

substances (2012/18/CE). Relevant nationallaws on prevention of water pollution

Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out

A Chemical safety assessment has been carried out for the following components of this mixture:

Ethanediol' ethylene glycol

2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this Annex

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SECTION 16 - OTHER INFORMATION

Indication of Changes

SECTION 16	Changed item	Change	Notes
	SDS EU format according to commission		
	regulation EU 2020/878		
1.1	Formula	Modified	
1.1	UFI	Added	
3	Composition/information on ingredients	Modified	

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT

TLV - Treshold Limit Value	TWA - Time weighted average	
STEL - Short term exposure limit	PEL - Permission expsoure limit	
GHS - Globally Harmonized System	CAS - Chemical abstract service number	
AC	IMO/IM	
API - American Petroleum Institute	SDS - Safety Data Sheet	
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)	
DOT - Department of Transport	NTP - National Toxicology Program (USA)	
IARC - International agency for research on cancer	OSHA -	
NCEL - New chemical exposure limit	EPA - Environmental Protection Agency	
SCBA - Self contained breathing apparatus	NA - Not applicable	
ND Not available	CSR - Chemical Safety Report	
DNEL - Derived No effect Level	DMEL - Derived Minimum Effect Level	
EC - 50 - Effective Concentration , 50%	EL50 - Effective Loading, 50%	
IC 50 - Inhibition concentration, 50%	LC 50 - Lethal concentration, 50%	
LD 50 -Lethal dose, 50%	LL50 - Lethal loading, 50%	
LOAEL - Low observed adverse effects level	NOEL - No observed effects level	
NOAEL No observed adverse effects level	OECD Organization for economic co-op and devmt	
PNEC Predicted no effect concentration	PBT - Predicted, bioaccumulative, toxic	
STOT - Single Target Organ Toxicity	STOT - RE (above) with repeated exposure	
STOT - SE (Above) with single exposure vPvB - Very persistent, very bioaccumulative		
UVCB - susbtance of unkonw or variable composition, complex reaction products of bio materials		
WAF - Water accommodated fraction		

ADN - European agreement concerning the international carriage of dangerous goods by

inward waterways

ADR- European agreemnt concerning the international carriage of dangerous goods by road

ATE - Acute Toxicity estimate

BCF-Bioconcentration factor

CLP - classification labelling packaging refulation -regulation EC No. 1272/2008

IATA - Internatinal air transport association

IMDG - Internation maritime dangerous goods

NOAEC - no observed adverse effect concentration

NOEC No observed effect concentration

REACH - Registration, authorisation and restriction of chemicals, regulations No 1907/2006

RID - regulation concerning the international carriage of dangerous goods by railways

STP - sewage treatment plant

Data sources This safety data sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers

Training Advice - Provide adequate training to professional operators for the use of PPEs,

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according to the information contained in this safety data sheet

Other information: Do not use the product for any purposes that have not been advised by

the manufacturer

Full text of R-, H- and EUH-phrases

Acute Tox 4 (Oral)	Acute Toxicity (oral), category 4
Aquatic acute 1	Hazardous to the aquatic environment - acute Hazard, category 1
Aquatic chronic 1	Hazardous to the aquatic environment - CHronic Hazard, category 1
Aquatic chronic 2	Hazardous to the aquatic environment - CHronic Hazard, category 2
Aquatic chronic 3	Hazardous to the aquatic environment - CHronic Hazard, category 3
Aquatic chronic 4	Hazardous to the aquatic environment - CHronic Hazard, category 4
Eye Dam 1	Serious eye damage/eye irritation, category 1
Eye Irrt. 2	Serious eye damage/eye irritation, category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit.2	Skincorrosion/irritation, category 2
Skin Sens. 1B	Sensitisation - Skin, category 1B
H 302	Harmful if swallowed
H 315	Causes Skin Irritation
H 317	May cause an allergic skin reaction
H 318	Causes serious eye damage
H 319	Causes serious eye irritation
H 361f	Supsected of damaging fertility
H 400	Very toxic to acquatic life
H 410	Very toxic to acquatic life with long lasting effects
H 411	Toxic to acqualic life with long lasting effects
- 11 (- 11	/ n

Tall text of K / IT and Left phrases (continued)			
H 412	Harmful to aquatic life with long lasting effects		
H 413	May cause long lasting effects to aquatic life		
R 22	Harmful if swallowed		
R 36/38	Irritating to eyes/skin		
R 38	Irritating to skin		
R 41	Risk of serious damage to eyes		
R 43	May cause sensitization by skin contact		
R 50/53	Very toxic to aquatic organisms, may cause long term adverse effects to them		
R 51/53	Toxic to aquatic organisms, ,may cause long term adverse effects		
R 53	May cause long term adverse effects in the aquatic environment		
R 62	Possible risk of impaired fertility		
N	Dangerous for the environment		
Xi	Irritant		
Xn	Harmful		

Classification and procedure used to deliver the classification for mixtures according to

regulation EC 1272/2008 (CLP)

Acute Tox 4 (Oral) as per H 302 Calculation method STOT RE 2 as per H 373 Calculation method

Prepared as per to the 29 CFR 1910.1200 (2012) and EU by United Grease and Lubricants Co LLC, PO

Box 2685, Ajman, United Arab Emirates. Meets EU No. 2015/830 regulations also

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