

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 12-9-2016 Revision date: 19-8-2019 Supersedes: 9-1-2017 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Product name : Eurol Coolant -36°C RND

Product code : E504012
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public

Main use category : industrial use, professional use, consumer use

Function or use category : Anti-freezing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Eurol bv. Energiestraat 12

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1.4. Emergency telephone number

Emergency number : +31 548 615165

(Monday to Friday: 8:00 - 17:00)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

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

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS08

CLP Signal word : Warning Hazardous ingredients : ethane-1.2-diol

Hazard statements (CLP) : H302 - Harmful if swallowed.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P260 - Do not breathe dust, fume, gas, mist, spray. P264 - Wash hands thoroughly after handling.

P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/container to a hazardous or special waste collection point.

Child-resistant fastening : Not applicable Tactile warning : Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethane-1,2-diol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	35 - 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Seek medical attention if ill effect develops.

First-aid measures after inhalation

: Take victim to fresh air, in a guiet place, in an half laying position and if necessary take medical advice. Allow the victim to rest.

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. Seek medical attention if ill effect or irritation develops.

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. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist.

First-aid measures after ingestion

: Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Drink plenty of water. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

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: Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/effects after skin contact

Symptoms/effects after eye contact : Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Symptoms/effects after ingestion : Bad taste. Damage to kidneys. The main component of this product is harmful by ingestion.

Swallowing a small quantity of this material will result in serious health hazard.

Symptoms/effects upon intravenous administration

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water fog. Carbon dioxide (CO2), dry chemical powder, foam.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustion generates: CO, CO2

: Not expected to be a fire/explosion hazard under normal conditions of use. Explosion hazard

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

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

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

Other information : Prevent fire fighting water from entering the environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and

public waters.

6.1.1. For non-emergency personnel

Protective equipment : Use protective clothing. **Emergency procedures** : Consider evacuation.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. **Emergency procedures** : No specific measures are necessary.

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Prevent liquid from entering sewers, watercourses, underground or low areas. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

For containment : Large quantities: Contain large spillage with sand or earth.

Methods for cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

sawdust). Take up large spills with pump or vacuum and finish with dry chemical

absorbent

Other information : Use suitable disposal containers. Sweep up and remove to a suitable, clearly marked

container for disposal in accordance with local regulations. On water, recover/skim from

surface and pour out in disposal container.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat,

flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and

promptly returned to a drum reconditioner or disposed of properly.

: Avoid prolonged and repeated contact with skin. May be dangerously slippery if spilled. Precautions for safe handling

Where contact with eyes or skin is likely, wear suitable protection. Do not eat, drink or

smoke during use. Remove contaminated clothing and shoes. Hygiene measures

: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Where contact with eyes or skin is likely, wear suitable protection. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed and in well ventilated place.

Storage conditions : Store in original container.

Incompatible products : Reacts vigorously with strong oxidizers and acids.

Maximum storage period : 5 year Storage temperature : \leq 40 °C

Information on mixed storage : Keep away from : oxidizing materials. strong acids.

Storage area : Store at ambient temperature.

Special rules on packaging : Keep container tightly closed and dry.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethane-1,2-diol (107-21-1)			
EU	Local name	Ethylene glycol	
EU	IOELV TWA (mg/m³)	52 mg/m³	
EU	IOELV TWA (ppm)	20 ppm	
EU	IOELV STEL (mg/m³)	104 mg/m³	
EU	IOELV STEL (ppm)	40 ppm	
EU	Notes	Skin	
Ireland	OEL (8 hours ref) (mg/m³)	52 mg/m³	
Ireland	OEL (8 hours ref) (ppm)	20 ppm	
Ireland	OEL (15 min ref) (mg/m3)	104 mg/m³	
Ireland	OEL (15 min ref) (ppm)	40 ppm	
Malta	Local name	Ethyleneglycol	
Malta	OEL TWA (mg/m³)	52 mg/m³	
Malta	OEL TWA (ppm)	20 ppm	
Malta	OEL STEL (mg/m³)	104 mg/m³	
Malta	OEL STEL (ppm)	40 ppm	
United Kingdom	Local name	Ethane-1,2-diol	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³	
United Kingdom	WEL TWA (ppm)	20 ppm	
United Kingdom	WEL STEL (mg/m³)	30 mg/m³ (calculated)	
United Kingdom	WEL STEL (ppm)	40 ppm	
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	

8.2. Exposure controls

Appropriate engineering controls:

Large quantities: Contain large spillage with sand or earth.

Personal protective equipment:

Gloves. In case of splash hazard: safety glasses. Eye protection should only be necessary where liquid could be splashed or sprayed.

Materials for protective clothing:

Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves

Hand protection:

In case of repeated or prolonged contact wear gloves. The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream). The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

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Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4		EN 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.7		EN 374

Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid repeated or prolonged skin contact. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Equipment should conform to EN 166.

Respiratory protection:

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn. Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used for mist or fume. Use filter type P or comparable standard. A combination filter for particles and organic gases and vapours (boiling point >65°C) may be required if vapour or abnormal odour is also present due to high product temperature. Use filter type AP or comparable standard.

Personal protective equipment symbol(s):





Environmental exposure controls:

See Heading 12. See Heading 6.

Consumer exposure controls:

Neoprene or nitrile rubber gloves. Butylrubber protective gloves.

Other information:

Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9 1	Information of	n.	hasir	nhysical	and c	hemical	nroperties

Physical state : liquid
Appearance : liquid.
Colour : Yellow.
Odour : odourless.
Odour threshold : no data available
pH : no data available

pH solution : 7 - 10Relative evaporation rate (butylacetate=1) : < 0,1

Melting point : no data available
Freezing point : no data available

Boiling point : > 100 °C Flash point : >

Auto-ignition temperature : > 390 °C

Decomposition temperature : no data available Flammability (solid, gas) : no data available

Vapour Pressure 20°C : < 2 hPa
Relative vapour density at 20 °C : > 1 (air=1)
Relative density : no data available

Density : 1,0651 (1,061 - 1,069) kg/l

Solubility : Miscible with water.

Log Pow : < -0,1

Viscosity, kinematic : no data available
Viscosity, dynamic : no data available
Explosive properties : no data available
Oxidising properties : no data available

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: no data available **Explosive limits**

9.2. Other information

VOC content

Other properties : Gas/vapour heavier than air at 20'C.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Moisture. Overheating.

10.5. Incompatible materials

Strong oxidizing agents. strong acids.

10.6. Hazardous decomposition products

CO, CO2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

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

ATE CLP (oral) 1021,45 mg/kg bodyweight

ethane-1,2-diol (107-21-1)		
LD50 oral rat	4000 mg/kg	
LD50 dermal rat	> 3500 ml/kg	
LD50 dermal	> 3500 mg/kg	
LC50 inhalation rat (mg/l)	> 2,5 mg/l (6h)	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2,5 mg/l/4h (6h)	

Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified 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.

Aspiration hazard : Not classified

Other information : Toxicological data have not been determined specifically for this product. Information given

is based on a knowledge of the components and the toxicology of similar products. Likely

route of exposure: ingestion, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Ecotoxicological data have not been determined specifically for this product. Information

given is based on a knowledge of the components and the ecotoxicology of similar

products.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

ethane-1.2-diol (107-21-1)

LC50 fish 1	41000 mg/l (96h; Oncorhynchus mykiss)	
LC50 fish 2	14 - 18 ml/l (96h; Oncorhynchus mykiss [static])	
EC50 Daphnia 1	46300 mg/l (48h; Daphnia magna)	

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EC50 other aquatic organisms 1	6500 (6500 - 13000) mg/l (96h; Pseudokirchneriella Subcapitata)
Threshold limit algae 1	10000 mg/l (168 h; Scenedesmus quadricauda)
Threshold limit algae 2	2000 mg/l (192 h; Microcystis aeruginosa)
12.2. Persistence and degradability	
ethane-1,2-diol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. easily degradable in the soil.
Biochemical oxygen demand (BOD)	0,47 g O ₂ /g substance
Chemical oxygen demand (COD)	1,24 g O ₂ /g substance
ThOD	1,29 g O ₂ /g substance
BOD (% of ThOD)	0,36
12.3. Bioaccumulative potential	
Eurol Coolant -36°C RND	
Log Pow	< -0,1

ethane-1,2-diol (107-21-1)		
Log Pow	-1,36	
Bioaccumulative potential No bioaccumulation.		
12.4. Mobility in soil		
ethane-1,2-diol (107-21-1)		
Surface tension 0,048 N/m (20 °C)		
12.5. Deculte of DDT and vDvD accessment		

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not discharge

into drains or the environment.

Additional information

: Hazardous waste.

Ecology - waste materials

: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty

dispose of this container at hazardous or special waste collection point.

European List of Waste (LoW) code

: 16 01 14* - antifreeze fluids containing dangerous substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number	14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shippin	g name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

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14.5. Environmental hazards				
Not applicable Not applicable Not applicable Not applicable Not applicable				
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H302	Harmful if swallowed.	
H373	May cause damage to organs through prolonged or repeated exposure.	

SDS EU (REACH Annex II)

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.

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