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

1.1. Product identifier

Trade name/designation : Toyota Long Life Coolant Pre-Mixed Red

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

Specific use(s) : Coolant

1.3. Details of the supplier of the safety data sheet

Company : Toyota Motor Europe
 Bourgetlaan 60
 1140 -Brussel, Belgium
 Telephone:+32 (0)2 745 21 11
 Fax:+32 (0)2 745 20 67
 E-mail:info.msds@toyota-europe.com

National representative : See section 16.

1.4. Emergency telephone number

Emergency telephone : + 32 3 575 55 55 (24h/24h)

IRELAND (REPUBLIC OF)	+35 318 37 99 64	National Poisons Information Centre Beaumont Hospital
UNITED KINGDOM	+44 870 60 062 66 (UK only)	National Poisons Information Service (Birmingham Centre) City Hospital

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

Mixture: CLP classification not requested

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 1999/45/EC.

Xn; R22


Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Mixture: CLP classification not requested

2.2.2. Labelling according to Directives (67/548 - 1999/45)

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Symbol(s) :



Xn - Harmful

Contains : Ethanediol
R-phrase(s) : R22 - Harmful if swallowed.
S-phrases : S2 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S29 - Do not empty into drains.
S36 - Wear suitable protective clothing.
S46 - If swallowed, seek medical advice immediately and show this container or label.
S60 - This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

Other hazards which do not result in classification : Results of PBT and vPvB assessment :
This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Ethylene glycol	(CAS No.) 107-21-1 (EC No) 203-473-3 (EC Index) 603-027-00-1 (REACH-no) 01-2119456816-28-xxxx	49	Xn; R22
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylene glycol	(CAS No.) 107-21-1 (EC No) 203-473-3 (EC Index) 603-027-00-1 (REACH-no) 01-2119456816-28-xxxx	49	Acute Tox. 4 (Oral), H302

Full text of R-, H- and EUH-phrases: see section 16

Identification of the mixture : Mixture

SECTION 4: First aid measures


4.1. Description of first aid measures

Inhalation. : Keep at rest.
Move to fresh air.
Get medical advice/attention.

Skin contact : Take off contaminated clothing and shoes immediately.
Wash with plenty of water.
Get medical advice/attention.
Wash contaminated clothing before reuse.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Get medical advice/attention.

Ingestion : Rinse mouth.
Drink plenty of water.

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Additional advice : Call a physician immediately.
: First aider needs to protect himself.
: See also section 8 .
: Never give anything by mouth to an unconscious person or a person with cramps.
: Show this safety data sheet to the doctor in attendance.
: Treat symptomatically.
: When symptoms persist or in all cases of doubt seek medical advice.

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

Inhalation : May cause headache and dizziness.
Skin contact : May cause skin irritation and/or dermatitis. Poisoning by resorption through skin possible.
Eye contact : Contact with eyes may cause irritation.
Ingestion : Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which shall not be used for safety reasons : High volume water jet .

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible material .
Specific hazards : Burning produces noxious and toxic fumes. (COx) Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Advice for firefighters : Special protective equipment for firefighters . Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures


Advice for non-emergency personnel : See also section 8. Wear personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.
Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dilute with plenty of water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

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6.4. Reference to other sections

See also section 8 . See also section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Handling : Ensure adequate ventilation. Wear personal protective equipment. See also section 8. Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.
- Hygiene measures : Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Component	: Ethylene glycol (107-21-1)
TLV-TWA (ppm)	: 20 (IOELV, BE, FR, vap GB, ES, FI); 10 (DE, SE, DK, CH)
TLV-TWA (mg/m ³)	: 52 (IOELV, BE, LT, FR, ES, SI, HR); 25 (SE, EE); 26 (DK, DE, CH); 50 (CZ, FI); 15 (PL); 52 vap/10 part (GB, NL); 10 (spray DK, dust NO)
TLV-STEL (ppm)	: 40 (IOELV, BE, FR, vap GB, ES, FI); 20 (SE, CH); 25 (vap NO)
TLV-STEL (mg/m ³)	: 104 (IOELV, BE, vap GB, LT, FR, ES, vap NL, HR); 100 (CZ, FI); 50 (SE, PL, EE); 52 (CH)

- Recommended monitoring procedures: : Concentration measurement in air, Personal monitoring

8.2. Exposure controls

- Personal protective equipment : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with a full face mask (EN136). Respirator with a half face mask (EN140). Recommended Filter type: A (EN141).
- Hand protection : Rubber gloves (EN 374) - Nitrile rubber . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
- Eye protection : Safety glasses (EN166)
- Engineering control measures : Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Organisational measures to

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Environmental exposure controls : prevent /limit releases, dispersion and exposure : See also section 7 .
: Comply with applicable Community environmental protection legislation.,Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : liquid
Colour : red
Odour : mild
pH : 7,5
Melting point/range : no data available
Boiling point/boiling range : 108 °C
Flash point : no data available
Evaporation rate : no data available
Explosion limits : not applicable
Vapour pressure : no data available
Vapour density : no data available
Density : 1,077
Water solubility : miscible
Solubility in other solvents : no data available
Autoignition temperature : no data available
Viscosity : no data available
Explosive properties : not applicable
Oxidizing properties : not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : None under normal processing.

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks. See also section 7 .

10.5. Incompatible materials

Incompatible materials : Incompatible with strong acids and oxidizing agents. See also section 7 :
Handling and storage .

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides .



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Ethylene glycol (107-21-1)	
LD50/oral/rat	4000 mg/kg
LD50/dermal/rat	> 3500 mg/kg (mouse)
LD50/dermal/rabbit	9530 µl/kg
LC50/inhalation/4h/rat	> 2,5 (6h)

Irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: 7,5Corrosivity : Not classified (Based on available data, the classification criteria are not met.)
pH: 7,5

Sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Repeated dose toxicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Toxicity for reproduction : Not classified (Based on available data, the classification criteria are not met.)

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects : Ecological injuries are not known or expected under normal use.

Component**: Ethylene glycol (107-21-1)**

LC50/96h/fish : 41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

LC50 fish 2 : 14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

EC50/48h/daphnia : 46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)

EC50 other aquatic organisms 1 : 6500 - 13000 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)

IC50/72h/algae : 6500 - 13000 mg/l Growth rate

12.2. Persistence and degradability

Persistence and degradability : No information available.


12.3. Bioaccumulative potential

Bioaccumulation : No information available.

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

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PBT/vPvB : No data available

12.6. Other adverse effects

Further information : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Where possible recycling is preferred to disposal or incineration. Collect and dispose of waste product at an authorised disposal facility. Do not let product enter drains. Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to local recyclers for disposal.

List of suggested waste codes/waste designations in accordance with the EWC: : The following Waste Codes are only suggestions: 07 02 04* - other organic solvents, washing liquids and mother liquors (CH: 07 02 04 * ds). Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Restrictions on use : not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: none

15.1.2. National regulations

DE: WGK : 1

DE: Technische Regeln für Gefahrstoffe (TRGS) : applicable

CH: WGK CH : 3

CH: This safety datasheet has been prepared according to Swiss legislation. : Annex II, Ochim


NL : ABM : 11 - Weinig schadelijk voor in het water levende organismen (B)

NL: NeR (Nederlandse emissie Richtlijn) : Organic Substances

NO: Reference number : PR N° 102452

15.2. Chemical safety assessment

Chemical Safety Assessment : Not required

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SECTION 16: Other information

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

Acute Tox. 4 (Oral) : Acute toxicity Category 4
H302 : Harmful if swallowed.
R22 : Harmful if swallowed.
Xn : Harmful

Sources of key data used to compile the Safety Data Sheet : European Chemical Bureau
MSDS of CCI Corporation UK Limited (Toyota Long Life Coolant Pre-mixed Red)

Safety datasheet sections which have been updated: : 2,3,4,5,6,7,8,9,10,11,12,13,15,16

Abbreviations and acronyms : ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
Median lethal concentration LC50 =
LD50 = Median lethal dose
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


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The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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