

Issuing Date 28-Jul-2016

Revision date 22-Apr-2026

Revision Number 1

1. Identification

A. Product identifier

Product Name Scania Coolant Concentrate
Synonyms None.
Product Code(s) 1894323, 1894324, 1894325, 1894326

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

Recommended use Antifreeze
Restrictions on use No information available

C. Supplier's details

Importer Scania Korea Seoul Co., Ltd. Construction Hall, 14th Floor, 711, Yeongno-ro, Gangnam-gu, Nonhyeon-dong Seoul, Korea 06050 TEL: +82 2 3218 0865 Fax: +82 2 511 7438	Supplier Scania CV AB 151 87 Sodertalje Sweden TEL: +46855381000
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For further information, please contact

E-mail address sds@scania.com
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2. Hazard(s) identification

A. Classification of the substance or mixture

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

B. GHS Label elements, including precautionary statements

Hazard symbols



Signal word

Warning

Hazard statements

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P260 - Do not breathe vapor or mist

Precautionary Statements - Response

P314 - Get medical advice/attention if you feel unwell

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

Precautionary Statements - Disposal

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

C. Other hazards which do not result in classification

No information available.

3. Composition/information on ingredients**Substance****Mixture**

Chemical name	Common name and synonyms	CAS No.	Korean Existing Chemicals Inventory	Weight-%	Approval number	Expiration date
Ethylene glycol	No information available	107-21-1	KE-13169	75 - 100	-	-
Decanedioic acid, disodium salt	No information available	17265-14-4	KE-09416	3 - < 5	-	-
Tolyltriazole, sodium salt	No information available	64665-57-2	KE-23499	0.1 - < 0.2	-	-

4. First-aid measures**A. In case of eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

B. In case of skin contact

Wash skin with soap and water. Get medical attention if symptoms occur.

C. In case of inhalation

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

D. In case of ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

E. Indication of immediate medical attention and special treatment needed, if necessary**General advice**

Show this safety data sheet to the doctor in attendance.

Note to physicians	Treat symptomatically.
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.
Effects of Exposure	May cause damage to organs through prolonged or repeated exposure.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Use personal protective equipment as required. See section 8 for more information.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media Water spray. Foam. Dry extinguishing powder.

Unsuitable extinguishing media None known based on information supplied.

B. Specific hazards arising from the chemical

None known.

C. Special Protective Equipment for Firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Do not breathe vapor or mist. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

B. Environmental precautions

See Section 12 for additional Ecological Information.

C. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

A. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment. Remove contaminated clothing and shoes. Do not breathe vapor or mist. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this

product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Protect from moisture.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits

Chemical name	OEL	PEL	ACGIH TLV
Ethylene glycol	Ceiling: 100 mg/m ³ ; mist and vapor	No data	TWA: 25 ppm vapor fraction STEL: 50 ppm vapor fraction STEL: 10 mg/m ³ inhalable particulate matter, aerosol only

Note See section 16 for terms and abbreviations

B. Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Environmental exposure controls No information available.

C. Personal protective equipment

Respiratory protection Use appropriate respiratory protection. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.

Eye protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Body protection Wear suitable protective clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

A. Appearance No information available

Physical State Liquid

Color light violet

B. Odor Characteristic

C. Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
D pH	8	approx, ASTM D1287
E Melting point / freezing point	< -18 °C / < -0.4 °F	DIN ISO 3016
F Initial boiling point and boiling range	> 160 °C / > 320 °F	ASTM D1120)
G Flash point	> 124 °C / > 255.2 °F	ISO 2719
H Evaporation rate		No data available
I Flammability		No data available
J Upper/lower flammability or explosive limits		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
K Vapor pressure	0.2 hPa	@ 20 °C
L Solubility(ies)		
Water solubility	Soluble in water	
Solubility in other solvents		No data available
M Relative vapor density	> 1	@ 20 °C; Heavier than air
N Specific Gravity	1.122 - 1.25 g/cm ³	@20°C DIN 51757
Bulk density		No data available
Liquid Density		No data available
O Partition coefficient: n-octanol/water		No data available
P Autoignition Point	420 °C / 788 °F	DIN 51794
Q Decomposition temperature SADT (°C)		No data available No data available
R Viscosity		
Kinematic viscosity	20 - 32 mm ² /s	@ 20 °C, DIN 51562
Dynamic viscosity		No data available
S Molecular weight		No data available
<u>Other information</u>		
VOC content	No information available	
Softening point	No information available	

Information with regard to physical hazard classes

Explosives

Explosive properties Not an explosive

Oxidizing properties

Not an oxidizer

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions

Stability Hygroscopic.

Possibility of hazardous reactions None under normal processing.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

B. Conditions to avoid

Incompatible materials. Protect from moisture.

C. Incompatible materials

None known based on information supplied.

D. Hazardous decomposition products

None known based on information supplied.

11. Toxicological information**A. Information on the likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.
Skin contact	Specific test data for the substance or mixture is not available.
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.

B. Health hazards information**Acute toxicity** Harmful if swallowed. Harmful by inhalation.**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

ATEmix (oral)	1,600 mg/kg
ATEmix (dermal)	> 5,000 mg/kg
ATEmix (inhalation-dust/mist)	3.75 mg/kg

Unknown acute toxicity

4.99 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

4.99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
Tolyltriazole, sodium salt	= 1980 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Skin corrosion/irritation No information available.**Serious eye damage/irritation** No information available.**Respiratory or skin sensitization** No information available.**Carcinogenicity** No information available.**Germ cell mutagenicity** No information available.

Reproductive toxicity This product contains ≥ 0.1 - $< 3.0\%$ of substance (s) that are classified for Reproductive toxicity Category 2. Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure No information available.

Specific target organ toxicity (STOT) - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Target organ effects No information available.

Aspiration hazard No information available.

12. Ecological information

A. Ecotoxicity

Based on available data, the classification criteria are not met.

Aquatic ecotoxicity

Component Information

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Ethylene glycol	LC50: =41000mg/L (96h, Oncorhynchus mykiss) LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata)	EC50: =46300mg/L (48h, Daphnia magna)	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	-

B. Persistence and degradability

No information available.

C. Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor
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			(TMF)
Ethylene glycol	-1.36	-	-
Decanedioic acid, disodium salt	-4.9	-	-
Tolyltriazole, sodium salt	1.091	-	-

D. Mobility in soil

No information available.

E. Other adverse effects

No information available.

13. Disposal considerations**A. Disposal methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

B. Disposal considerations

Contaminated packaging Do not reuse empty containers.

14. Transport information

A. UN number or ID number Not regulated

B. UN proper shipping name Not regulated

C. Transport hazard class(es) Not regulated

D. Packing group Not regulated

E. Marine pollutant Not applicable

F. Special precautions for user Not regulated

15. Regulatory information**A. Industrial Safety and Health Law**

Prohibited substance Not applicable

Substances Requiring Permission Not applicable

Harmful substances subject to control

Chemical name	Harmful substances subject to control
Ethylene glycol	Applicable

Harmful agents subject to work environment monitoring

Chemical name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Ethylene glycol	Applicable Measurement cycle: 6 months	Not applicable	Not applicable	Not applicable	Not applicable

Harmful agents subject to workers requiring health examination

Chemical name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Ethylene glycol	Applicable Diagnostic cycle: 12 months	Not applicable	Not applicable	Not applicable	Not applicable

Harmful or dangerous substances subject to submission of process safety reports Not applicable.

Control parameters

Chemical name	OEL	PEL
Ethylene glycol	Ceiling: 100 mg/m ³ ; mist and vapor	No data

B. Chemicals Control Act Not applicable

Hazardous chemical substances Not applicable

C. Act on Registration, Evaluation, etc. of Chemicals (K-REACH) Applicable

Chemical name	Korean Existing Chemicals Inventory	Priority control substances
Ethylene glycol	KE-13169	Not applicable
Decanedioic acid, disodium salt	KE-09416	Not applicable
Tolyltriazole, sodium salt	KE-23499	Not applicable

D. Safety Control of Dangerous Substances Act

Dangerous Goods Class Class 4 - flammable liquids - Group 3 petroleum chemicals, water soluble, 4,000l

E. Wastes Management Dispose of waste in accordance with environmental legislation.

F. Other Regulations No information available

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.
TCSI	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

16. Other information

A. Information source and references

Prepared By No information available.

Key or legend to abbreviations and acronyms used in the safety data sheet

List may include phrases which are not applicable to this product

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
MSDS	Material Safety Data Sheet
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits

PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 U.S. Environmental Protection Agency
 U.S. EPA Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

United Nations World Health Organization (WHO)

B. Issuing Date 28-Jul-2016

C. Revision number and date

Revision Number	1
Revision Note	Updated format. SDS sections updated: 1 - 16.
Revision date	22-Apr-2026

D. Other .

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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