SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Notification No. 2023-9 of the Ministry of Employment and Labour Standards for
Classification, Labelling of Chemical Substances and Material Safety Data Sheets

Issuing Date 28-Jul-2016 **Revision date** 12-May-2026 **Revision Number** 2

1. Identification

A. Product identifier

Product Name Scania Coolant Ready-Mix 52/48

Synonyms None.

Product Code(s) 1896695, 1921955, 1921956, 1921957

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

For further information, please contact

E-mail address sds@scania.com

Emergency telephone number +46855381000 Office Hours: 8:00 - 1700

2. Hazard(s) identification

A. Classification of the substance or mixture

Acute toxicity - Oral	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
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
P260 - Do not breathe vapor or mist

Precautionary Statements - Response
P314 - Get medical advice/attention 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

Mixture

Chemical name	Common name and synonyms	CAS No.	Korean Existing Chemicals Inventory	Weight-%	Approval number	Expiration date
Ethylene Glycol	1,2-Ethanediol	107-21-1	KE-13169	50 - < 75	-	-
Decanedioic acid, disodium salt	No information available	17265-14-4	KE-09416	1 - < 3	-	-

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.

D. In case of ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

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 None known.

Effects of Exposure May cause damage to organs through prolonged or repeated exposure.

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.

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. Use with local exhaust ventilation. Do not breathe vapor or mist. Use personal protective equipment.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits

Chemical name	OEL	PEL	ACGIH TLV
Ethylene Glycol	Ceiling: 100 mg/m³; mist and	No data	TWA: 25 ppm vapor fraction

	vapor		STEL: 50 ppm vapor fraction STEL: 10 mg/m³ 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 Pink, liquid
Physical State Liquid
Color Pink
B. Odor Characteristic
C. Odor threshold No information available

Property	Values	Remarks • Method
D pH	7.8 - 8.6	ASTM D1287
E Melting point / freezing point		No data available
F Initial boiling point and boiling range	> 108 °C / > 226.4 °F	
G Flash point		None
H Evaporation rate		No data available
I Flammability		Not flammable
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	17 hPa @ 20◦C 85 hPa @ 50◦C 105 hPa @ 55◦C	
L Solubility(ies)		
Water solubility	Miscible in water	
Solubility in other solvents	Soluble in: Alcohols	
M Relative vapor density		No data available

N Specific Gravity	1.077 g/cm³ @ 15◦C	DIN 51757
	1.075 g/cm³ @ 20◦C	
	1.055 g/cm³ @ 50◦C	
Bulk density		No data available
Liquid Density		No data available
O Partition coefficient: n-octanol/water		No data available
P Autoignition Point	511 °C / 951.8 °F	DIN EN 14522
Q Decomposition temperature		No data available
SADT (°C)		No data available
R Viscosity		
Kinematic viscosity		
Dynamic viscosity		No data available
S Molecular weight		No data available

Other information

VOC content	No information available
Softening point	No information available

Information with regard to physical hazard classes

Explosives	
Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions

Stability	Stable under normal conditions.
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.

C. Incompatible materials
Strong acids.

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.
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 None known.

B. Health hazards information

Acute toxicity Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture
ATEmix (oral) 666.80 mg/kg

Unknown acute toxicity
2.99 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

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

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 No information available.

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 (TMF)
Ethylene Glycol	-1.36	-	-
Decanedioic acid, disodium salt	-4.9	-	-

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

D. Safety Control of Dangerous Substances Act Not applicable

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 2
Revision Note Name change. Updated format. SDS sections updated: 1 - 16.
Revision date 12-May-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