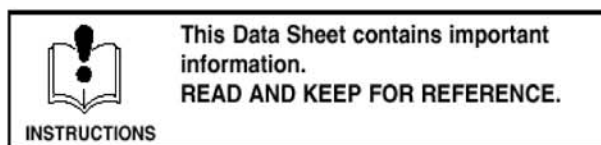


Material Safety Data Sheet



MSD130

Rev. D



Updated: 10/2021

Prepared according to Global Harmonized System (GHS) standards

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Antifreeze

Chemical Name: Ethylene Glycol 50-50

Manufacturer / Supplier: Graco

Graco Inc.

P.O. Box 1441

60 11th Ave. NE

Minneapolis, MN 55440-1441

Part Number(s): 079103

Use: Engine Coolant

Emergency Information:

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA/Canada: 1-800-424-9300

Outside USA/Canada: 1-703-741-5970

Contact: www.graco.com for any updates

SECTION 2

HAZARD IDENTIFICATION

Appearance:

Green

Odor:

Sweet

Classification:

Acute Toxicity - oral category 4

Reproductive toxicant category 1

Hazardous to the aquatic environment (acute hazard) category 3

Target Organs:

Lungs, Reproductive

Pictogram(s):



Signal Word:

DANGER

Hazard Statement:

H302 - Harmful if swallowed

H360 - May damage fertility or the unborn child

H402 - Harmful to aquatic life

Other Hazards:

Not determined.

Prevention:

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash hands thoroughly after handling

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

P273 - Avoid release to the environment

P281 - Use personal protective equipment as required

Response:

P330 - Rinse mouth

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

P308+P313 - IF exposed or concerned: Get medical advice/attention

Storage Procedures:

P405 - Store locked up

Disposal:

P501 - Dispose of contents and container in accordance with federal, state, and local regulations

Other:

See section 11 for complete health hazard information.

SECTION 3**COMPOSITION OF INGREDIENTS**

Component	CAS Number	Percentage (by weight)
Ethylene Glycol	107-21-1	85 - 100%
Sodium Nitrite	7632-00-0	0 - 1%
Sodium Mercaptobenzothiazole	2492-26-4	0 - 1%
Disodium Tetraborate, Anhydrous	1330-43-4	0 - 1%

The balance of components do not contribute to the overall classification of the fluid, according to the GHS Standard.

SECTION 4**FIRST AID MEASURES**

Eye Contact:	If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.
Skin Contact:	Call a doctor if you feel unwell.
Inhalation:	Get medical advice or attention if you feel unwell or are concerned.
Ingestion:	Rinse mouth. Call a doctor if you feel unwell.
Other:	If exposed or concerned: Get medical advice/attention (carcinogen).

SECTION 5**FIRE FIGHTING MEASURES**

Flash Point:	>100°C by Cleveland Open Cup Tester.
Flammable limits:	Not applicable.
Extinguishing media:	Not applicable.
Special firefighting procedures:	General directions - product will not burn without driving water from material first. Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.
Unusual fire & explosion hazards:	High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard.
Byproducts of combustion:	Fires involving this product may release oxides of carbon, nitrogen and sulfur, reactive hydrocarbons and irritating vapors.
Autoignition temperature:	Not determined.
Explosion data:	Not determined. Care should always be exercised in dust/mist areas.
Other:	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Spill control procedures (land):	Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).
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Spill control procedures (water):	Try to contain large spills with floating booms to prevent spill from spreading. Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard at 800-424-8802).
Waste disposal method:	Do not empty into drains. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.
Other:	CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.

SECTION 7

HANDLING AND STORAGE

Handling procedures:	Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse. Handling temperatures should not exceed 60°C (140°F) to minimize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory protection. Wash thoroughly after handling.
Storage procedures:	Store containers away from heat, sparks, open flame, or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.
Additional information:	No additional information.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product:

Component	CAS Number	OSHA PEL	ACGIH TWA
Ethylene Glycol	107-21-1	N/A	N/A
Sodium Nitrite	7632-00-0	N/A	N/A
Sodium Mercaptobenzothiazole	2492-26-4	N/A	N/A
Disodium Tetraborate, Anhydrous	1330-43-4	N/A	2mg/m3

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

Personal protection:	Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.
Respiratory protection:	None required if ventilation is adequate. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.
Eye protection:	Eye protection is strongly recommended. Wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).
Hand protection:	Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.

Other protection:	Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended based on level of activity and exposure. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.
Local control measures:	Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in areas where this material is used and stored.
Other:	Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green
Odor:	Sweet
Odor threshold:	Not determined.
pH:	8.5
Melting/Freezing point:	Not determined.
Initial boiling point:	>100°C.
Boiling range:	Not determined.
Flash point:	>100°C.
Evaporation rate:	Not determined.
Flammability:	Non-flammable
Upper flammable limit:	Non-flammable
Lower flammable limit:	Non-flammable
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	1.1
Solubility:	Miscible in water, negligible in most petroleum solvents.
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Other	Not applicable.

SECTION 10

STABILITY AND REACTIVITY

Reactivity	
Chemical stability:	Material is chemically stable at room temperatures and pressure.
Hazardous polymerization:	Will not occur.
Conditions to avoid:	Avoid high temperatures and product contamination.
Incompatibility with other materials:	Avoid contact with acids and strong oxidizing materials.
Decomposition products:	Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating vapors.
Other:	Not applicable.

SECTION 11**TOXICOLOGICAL INFORMATION****Acute toxicity (LD50) *See note at the bottom of the section**

Oral:	300 - 2000 mg/kg
Dermal:	>5000 mg/kg
Inhalation:	>20.0 mg/l
Skin irritation:	Non-irritant
Eye irritation:	Non-irritant
Dermal sensitization:	Not expected to have a sensitizing effect.
Respiratory sensitization:	Not expected to have a sensitizing effect.
Aspiration Hazard:	Not applicable

Chronic Toxicity

Mutagenicity:	Not suspected of causing genetic defects
Carcinogenicity:	Not suspected of causing cancer.
Reproductive toxicity:	May damage fertility or the unborn child.
STOT-single exposure:	Not expected to have adverse effects.
STOT-repeated exposure:	Not expected to have long term adverse effects.
Other:	*All data in this section is based off calculations from Part 3 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

SECTION 12**ECOLOGICAL INFORMATION****Environmental toxicity**

Fish:	10 - 100 mg/l.
Invertebrates:	10 - 100 mg/l.
Aquatic plants:	10 - 100 mg/l.
Microorganism:	10 - 100 mg/l.

Persistence/Degradability: This product is not expected to be readily biodegradable.

Bioaccumulation: Not determined.

Mobility in soil: Not determined.

Other: All classifications are based on calculations in Part 4 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste disposal: This product unadulterated by other materials can be classified as a non-hazardous waste. Depending on use, used product may be regulated. Dispose of in a licensed facility. Do not discharge product in to sewer system. Dispose of containers by crushing or puncturing, so as to prevent unauthorized use of used containers. Waste management should be in full compliance with federal, state, and local laws.

Other The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14**TRANSPORT INFORMATION**

Land Transport (DOT):	UN 3082
Proper Shipping Name:	UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
Land Transport (TDG):	Not regulated for land transport.
Proper Shipping Name:	Not applicable.
Sea Transport (IMDG):	Not regulated for sea transport.
Proper Shipping Name:	Not applicable.
Air Transport (IATA):	Not regulated for air transport.
Proper Shipping Name:	Not applicable.
Other:	Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package).

SECTION 15**REGULATORY INFORMATION****Federal Regulation**

Clean water act/oil:	No components of this product are listed.
TSCA:	All components of this material are listed in the U.S. TSCA Inventory.
Other TSCA:	Not applicable.
SARA title III:	Section 302/304 extremely hazardous substances: None. Section 311, 312 hazard categorization: Acute (immediate health effects): YES Chronic (delayed health effects): YES Fire (hazard): NO Reactivity (hazard): NO Pressure (sudden release hazard): NO Section 313 toxic chemicals: No components present are at or greater than the de minimis (minimum reportable) concentration requirements for reporting.
CERCLA:	For stationary/moving sources – reportable quantity (due to): Not hazardous due to the petroleum exclusion.

State Regulations

Right-to-know	Not determined.
Other:	A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, releases may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial civil and criminal penalties. Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

SECTION 16**OTHER INFORMATION**

	NFPA 704	NPCA-HMIS	KEY
HEALTH:	1	1	0 = Minimal
FIRE:	1	1	1 = Slight
REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	None	N/A	3 = Serious
PROTECTION INDEX:	N/A	B	4 = Severe

Version: III

Prepared By

Graco, Inc.

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

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