

John Deere Cool-Gard[™] II Premix

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 07/30/2014

Version: 1.0

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

Product identifier

Product form

: Mixture

Trade name Product code : John Deere Cool-Gard™ II Premix : TY26575, TY26576, TY26577, TY26578

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

Use of the substance/mixture

: Engine Coolant and Anti-freeze

Details of the supplier of the safety data sheet

MANUFACTURER:

Northland Products 1000 Rainbow Drive Waterloo, IA 50704

Tel: +1-319-234-5585 +1-800-772-1724

SUPPLIER:

Deere & Company One John Deere Place Moline, IL 61265

1.4. Emergency telephone number

Emergency number

: Chemtrec 1-800-424-9300

Chemtrec (Outside USA) +1 703-527-3887 (24 hours)

Supplier: +1-309-748-5636 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT RE 2 H373

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

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

Precautionary statements (GHS-US)

P260 - Do not breathe dust, fume, mist, spray, vapours

P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, eye protection, protective clothing
P301+P312 - If swallowed: Call a a doctor, a POISON CENTER if you feel unwell

P302+P352 - If on skin: Wash with plenty of water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P314 - Get medical advice/attention if you feel unwell

P321 - Specific treatment (see on this label)

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

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2.3. Other hazards

other hazards which do not result in classification

: Spills of this product present a serious slipping hazard.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION & Composition/Information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethylene glycol	(CAS No) 107-21-1	45 - 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium tetraborate decahydrate	(CAS No) 1303-96-4	0.5 - 1.5	Repr. 1B, H360
Sodium hydroxide	(CAS No) 1310-73-2	0.5 - 1.5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318

SECTION 4: First ald measures

4.1. Description of first aid measures

First-aid measures general

- : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation
- : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Assure fresh air breathing. If breathing is difficult, give oxygen. In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after skin contact
- : Rinse and then wash skin thoroughly with water and soap. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact
- : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. If redness, burning, blurred vision or swelling occur, transport to nearest medical facility for additional treatment. Get medical advice/attention.
- First-aid measures after ingestion
- : If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain emergency medical attention.

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

Symptoms/injuries

- : Causes damage to organs (kidneys) (Oral).
- Symptoms/injuries after inhalation
- : Long-term (repeated). Inhalation of mist or aerosol may cause irritation to nose and throat.
- Symptoms/injuries after skin contact
- Causes skin irritation.
- Symptoms/injuries after eye contact
- Causes serious eye irritation. Swelling and inflammation.
- Symptoms/injuries after ingestion
- : May be harmful if swallowed. Ingestion may cause nausea and vomiting. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. In the case of extreme exposure there is a risk of severe metabolic acidosis and haemorrhagy. Death in extreme cases. Symptoms may be delayed.

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Symptoms may be delayed.

SECTION & Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media
- : Foam. Dry powder. Carbon dioxide. Water fog. Water spray. Sand.
- Unsuitable extinguishing media
- : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: When heated above the flash point, releases vapours. Gas/vapours, flammable.

Explosion hazard

 Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Precautionary measures fire

: Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Gases/vapours, toxic.

Firefighting instructions

: Exercise caution when fighting any chemical fire. Do not use direct water stream; may spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray. Prevent fire-fighting water from entering environment.

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Protective equipment for firefighters

: Wear approved self-contained breathing apparatus (set on positive pressure mode). Do not enter fire area without proper protective equipment, including respiratory protection.

Other information

: Special danger of slipping by leaking/spilling product. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Spilled material may present a slipping hazard. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Prevent contamination of soil, drains and surface waters. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Approach from upwind. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Gather the product and place it in a spare container that has been suitably labelled. Consult the appropriate authorities about waste disposal. Large spills: Contain large spills to maximize product recovery or disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Shovel into suitable and closed container for disposal. Minimize generation of dust. Store away from other materials. Ensure all national/local regulations are observed.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

- : Special danger of slipping by leaking/spilling product.
- : Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Provide good ventilation in process area to prevent formation of vapour. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Empty container retains product residue. Use and store away from all naked flames, heat sources or working electrical appliances. Do not smoke.

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Discard contaminated leather articles. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

 Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Storage conditions

: Keep out of reach of children. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place away from highly flammable substances. Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight. Protect from moisture. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials

: Refer to Section 10 on Incompatible Materials.

Heat and ignition sources

: Remove all sources of ignition.

Storage area

: Store in dry, cool, well-ventilated area. Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethylene glycol (107-21-1)			
USA ACGIH	ACGIH Ceiling (mg/m³)	100 mg/m³	

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Sodium tetraborate decahydrate (1303-96-4)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
USA ACGIH	ACGIH STEL (mg/m³)	6 mg/m³

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

Exposure controls

Appropriate engineering controls

: A washing facility/water for eye and skin cleaning purposes should be present. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Ensure adequate ventilation.

Personal protective equipment

Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. For certain operations, additional Personal Protection Equipment (PPE) may be required. Gloves. Protective clothing. Protective goggles.



Hand protection

: Wear protective gloves. Nitrile-rubber protective gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Chemical goggles or safety glasses. with side-shields. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

Chemical resistant suit. Wear rubber boots. Wear suitable protective clothing.

Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use a properly fitted, air-purifying or air-fed respirator if neceassary.

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Other information

: Liquid

Appearance

Clear viscous liquid.

Colour

Gold.

odour

Odourless.

Odour threshold

: 25 ppm

: 7.8 - 8.5

Relative evaporation rate (butyl acetate=1)

: 0.01

Melting point

: -13 °C (9 °F)

Freezing point

: No data available

Boiling point

129 °C (264 °F)

Flash point

No data available

Auto-ignition temperature

Decomposition temperature

: No data available : No data available

Flammability (solid, gas)

: No data available

Vapour pressure

: < 0.008 kPa

Relative vapour density at 20 °C

: 2.1

Relative density

: 1.07 - 1.08 g/cm3

Solubility

: Water: completely soluble

Log Pow

Log Kow

: No data available

Viscosity, kinematic

No data available

Viscosity, dynamic

Explosive properties

: 21 mPa.s

: No data available

Oxidising properties **Explosive limits**

: No data available : No data available

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according to the rederal final rule of hazard confindincation	
9.2. Other information	. 405
VOC content	: 49.5
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable at normal conditions.	
10.3. Possibility of hazardous reactions	
Not established.	The second secon
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	ntact with Aluminium, Zinc and Tin can cause formation of hydrogen that together with air can be
an combustible mixture.	nact with Administry, 2010 and 1010 accounts of the second
10.6. Hazardous decomposition products	
unburned hydrocarbons. Fume. Carbon monoxide	e. Carbon dioxide.
SECTION 11: Toxicological informatio	900
11.1. Information on toxicological effects	
Acute toxicity	: Harmful if swallowed.
John Deere Cool-Gard™ II Premix	
ATE CLP (oral)	500.000 mg/kg bodyweight
Ethylene glycol (107-21-1)	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	9530 µl/kg
ATE CLP (oral)	500.000 mg/kg
Sodium tetraborate decahydrate (1303-96-4)	
LD50 oral rat	2660 mg/kg
Sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
ATE CLP (dermal)	1350.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
	pH: 7.8 - 8.5
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 7.8 - 8.5
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	·
Reproductive toxicity	: Not classified (Conclusive but not sufficient for classification)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Long-term (repeated). Inhalation of mist or aerosol may cause irritation to nose and throat.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Swelling and inflammation.
Symptoms/injuries after ingestion	: May be harmful if swallowed. Ingestion may cause nausea and vomiting. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. In the case of extreme exposure there is a risk of severe metabolic acidosis and haemorrhagy. Death in extreme cases. Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity

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Ethylene glycol (107-21-1)	
LC50 fishes 1	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Sodium hydroxide (1310-73-2)	
LC50 fishes 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
2.2. Persistence and degradability	
John Deere Cool-Gard™ II Premix	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
John Deere Cool-Gard™ II Premix	
Log Pow	-1.07
Bioaccumulative potential	Not established.
Ethylene glycol (107-21-1)	
Log Pow	-1.93
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	: Avoid release to the environment.
Other information	. Avoid release to the environment.
SECTION 13: Disposal considera	Hons
13.1. Waste treatment methods	: Dispose of contents/container to comply with applicable local, national and internation
	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp
Additional information	regulations. Liquid product may not be disposed of with household waste or landfilled. Do allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue.
Additional information Ecology - waste materials	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize cut weld braze solder drill, grind, or expose containers to flames, sparks
Ecology - waste materials	 allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
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Ecology - waste materials Seளாலி 14% பிகாதஹ் !hiiலம்வி	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECULON 1//இ பிகாதுலர் பெல்பெடிப் In accordance with ADR / RID / IMDG / IAT.	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECULON 1//த பாளஹால் பாலாமல் In accordance with ADR / RID / IMDG / IAT. 14.1. UN number	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/45 Themsport Informet In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/4: Themsport Information In accordance with ADR / RID / IMDG / IATA 14.1. UN number Not applicable 14.2. UN proper shipping name	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptided. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/2 Than Sport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/45 Themspood Informed In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptided. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/48 Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptided. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/4: Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptided. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/18 Than Sport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/4: Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/4: Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available Air transport	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment.
Ecology - waste materials SECTION 1/28 Themsport Information In accordance with ADR / RID / IMDG / IATA 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available Air transport No additional information available Air transport No additional information available	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since empty containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment. A / ADN RQ value – Refer to section 15.
Ecology - waste materials SECTION 1/18 Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available Air transport No additional information available Air transport No additional information available SECTION 168 RESPIRTORY INTORING	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since empty containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment. A / ADN RQ value – Refer to section 15.
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Ecology - waste materials SECILON 1/4: Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available Air transport No additional information available SECILON 15: Reculatory finional 15.1. US Federal regulations John Deere Cool-Gard II Premix	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment. A / ADN RQ value – Refer to section 15.
Ecology - waste materials SECTION 1/4: Themsport Information In accordance with ADR / RID / IMDG / IAT. 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport No additional information available Transport by sea No additional information available Air transport No additional information available SECTION 15: Records to the contraction of the contraction available SECTION 15: Records to the contraction of the contrac	allow to enter into drains/waters or in the soil. Do not re-use empty containers. Since emp containers retain product residue, follow label warnings even after container is emptied. Disp in a safe manner in accordance with local/national regulations. Dispose of at an licensed site. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks heat, or other potential ignition sources. Empty container retains product residue. Prevent contamination of soil, drains and surface waters. Avoid release to the environment. A / ADN RQ value – Refer to section 15.

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EPA TSCA Regulatory Flag	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
RQ (Reportable quantity, section 304 of EPA's List of Lists):	5000 lb
SARA Section 313 - Emission Reporting	1.0 %

Sodium tetraborate decahydrate (1303-96-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's 1000 lb	
List of Lists):	

15.2. International regulations

CANADA

John Deere Cool-Gard™ II Premix		
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

Ethylene glycol (107-21-1)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	

Sodium tetraborate decahydrate (1303-96-4)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects		

Sodium hydroxide (1310-73-2)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class E - Corrosive Material		

EU-Regulations

Ethylene glycol (107-21-1)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		

Sodium hydroxide (1310-73-2) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

No additional information available

Classification according to Directive 67/548/EEC or 1999/45/EC

No additional information available

15.2.2. National regulations

Ethylene glycol (107-21-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

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Sodium tetraborate decahydrate (1303-96-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Sodium hydroxide (1310-73-2)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

Ethylene glycol (107-21-1)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
 U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
 U.S. Massachusetts Drinking Water Guidelines
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Ceilings
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Ceilings
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
 U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
 U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits Ceilings
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits Ceilings
- U.S. Washington Permissible Exposure Limits Ceilings U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

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Sodium tetraborate decahydrate (1303-96-4)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
 U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Illinois Toxic Air Contaminants
- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

Sodium hydroxide (1310-73-2)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits Ceilings U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Ceilings
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
 U.S. Tennessee Occupational Exposure Limits Ceilings
- U.S. Texas Effects Screening Levels Long Term
 U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits Ceilings
- U.S. Washington Permissible Exposure Limits Ceilings
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

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SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

kt of ri-prilases, see section to.	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

SDS US (GHS HazCom 2012)

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