SAFETY DATA SHEET

Cooflow DTX (03) 28%

SECTION 1: Identification

1.1. Product identifier

Trade name	Cooflow DTX (03) 28%
Product no.	DTX-HTF-N-03-28%

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

Relevant identified uses of the substance or mixture	Detoxified Ethylene Glycol based heat transfer fluid and antifreeze
Uses advised against	This product is not recommended for usages other than described above.

1.3. Details of the supplier of the safety data sheet

Company and address	**Hydratech** 29 Kripes Road CT06026 East Granby USA 860-668-1114 www.hydratech-usa.com
E-mail	info@hydratech-usa.com
SDS date	3/16/2026
SDS Version	2.0
Date of previous version	3/16/2026 (2.0)

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 “First aid measures”.

SECTION 2: Hazard(s) identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1. Classification of the substance or mixture

Skin Sens. 1; H317, May cause an allergic skin reaction.
In accordance with Article 9 and Article 12 of Regulation (EC) No. 1272/2008 (CLP), This mixture has been assessed as a mixtures where adequate and reliable scientific information demonstrates the occurrence of synergistic and antagonistic effects that renders the mixture non-toxic as determined by an EPA certified laboratory with an LD50, oral, rat >15,000 mg/kg bw.

2.2. Label elements

Hazard pictogram(s)



Signal word	Warning
Hazard statement(s)	May cause an allergic skin reaction. (H317)
Precautionary statement(s)	
General	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
Prevention	Avoid breathing mist/vapour. (P261) Wear eye protection/protective gloves/protective clothing. (P280)
Response	IF ON SKIN: Wash with plenty of water and soap. (P302+P352) If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)
Storage	Not applicable.
Disposal	Dispose of contents/container in accordance with local regulation. (P501)

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
ethanediol;ethylene glycol	CAS No.: 107-21-1	15-25%	Acute Tox. 4, H302 STOT RE 2, H373	
Sodium 4(or 5)-methyl-1H-benzotriazolide	CAS No.: 64665-57-2	<0.05%	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT SE 3, H335	
2-methylisothiazol-3(2H)-one	CAS No.: 2682-20-4	<0.01%	1, HHNOC071 Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 Acute Tox. 2, H330	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

The classification listed for ethylene glycol above is that which is listed, according to Regulation (EC) No. 1272/2008 (CLP) for neat monoethylene glycol. However, the ethylene glycol present in this mixture is rendered parnon toxic (as determined by an EPA certified laboratory) upon the addition of Hydratech's patented DeTox™ additive.

More detailed information on the detoxification of monoethylene glycol can be found under "further classification and composition comments" in Section 16 of this Safety Data Sheet.

SECTION 4: First-aid measures

4.1. Description of first aid measures

General information	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
Skin contact	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
Eye contact	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
Ingestion	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
Burns	Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material	Keep only in original packaging.
Storage conditions	0 - 40°C
Incompatible materials	Bases Reducing agents Strong acids Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios	There are no exposure scenarios implemented for this product.

Exposure limits	Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures	Apply standard precautions during use of the product. Avoid inhalation of vapours.
Hygiene measures	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
Measures to avoid environmental exposure	No specific requirements.

Individual protection measures, such as personal protective equipment

Generally: Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Type	Class	Colour	Standards
No specific requirements			

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,3	> 120	EN374-2, EN16523-1, EN388	
Nitrile	0,2	> 120	EN374-2, EN16523-1, EN388	
Vinyl/PVC	-	> 120	EN16523-1, EN388	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Colourless (unless dyed according to customer specification)
Odor	Faint
Odor threshold (ppm)	No data available
pH	10-11
Density (g/cm^3)	1.025-1.035 (68 °F)
Relative density	1.025-1.035 (68 °F)
Kinematic viscosity	No data available.
Particle characteristics	No data available

Phase changes

Melting point/freezing point (°F)	10.4
Melting point/freezing point (°C)	-12
Softening point/range (°F)	Does not apply to liquids.
Boiling point (°F)	214.7
Boiling point (°C)	101.5
Vapor pressure	No data available.
Relative vapor density	No data available.
Decomposition temperature (°F)	No data available.

Data on fire and explosion hazards

Flash point (°F)	>231.8
Flash point (°C)	>111 Test method: EN ISO 2719
Flammability (°F)	The material is not combustible.
Auto-ignition temperature (°F)	>752
Auto-ignition temperature (°C)	>400
Explosion limits (% v/v)	No data available

Solubility

Solubility in water	Completely soluble
n-octanol/water coefficient (LogKow)	No data available
Solubility in fat (g/L)	No data available

9.2. Other information

Other physical and chemical parameters	No data available.

Oxidizing properties	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies
None known.

10.4. Conditions to avoid
Storage in the open is not recommended.
Sunlight

10.5. Incompatible materials
Bases
Reducing agents
Strong acids
Strong oxidizing agents

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

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

Skin sensitisation
May cause an allergic skin reaction.

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

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

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

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

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

Long term effects
None known.

Other information
None known.

SECTION 12: Ecological information

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

12.2. Persistence and degradability
Based on available data, the classification criteria are not met.

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

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects
None known.

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)
None of the components are listed

Specific labelling

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information
Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.
Although this product is environmentally hazardous, the environmentally hazardous substance mark has been omitted as the product is supplied in packaging with a maximum quantity of 5 L / 5 kg.
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14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

15.2. U.S. Federal regulations

TSCA (the non-confidential portion)	ethanediol;ethylene glycol is listed Sodium 4(or 5)-methyl-1H-benzotriazolide is listed 2-methylisothiazol-3(2H)-one is listed
Clean Air Act	ethanediol;ethylene glycol is regulated as a hazardous air pollutant (HAPS)
EPCRA Section 302	None of the components are listed
EPCRA Section 304	None of the components are listed
EPCRA section 313	ethanediol;ethylene glycol is listed
CERCLA	ethanediol;ethylene glycol is regulated with a Reportable Quantity (RQ) of: 5000 pounds
Hazardous chemical inventory reporting	This product contains substances that may cause endocrine disruption in humans.

State regulations

California / Prop. 65	ethanediol;ethylene glycol is known to cause: Developmental Toxicity NSRL/MADL (µg/day): 8700 (oral) —
Massachusetts / Right To Know Act	ethanediol;ethylene glycol is listed
New Jersey / Right To Know Act	ethanediol;ethylene glycol / Substance number: 0878 —
New York / Right To Know Act	ethanediol;ethylene glycol is listed ethanediol;ethylene glycol is regulated with a Reportable Quantity (RQ) of: 1 pounds ethanediol;ethylene glycol is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds —
Pennsylvania / Right To Know Act	ethanediol;ethylene glycol is listed ethanediol;ethylene glycol is hazardous to the environment (E) —

NFPA

Health hazard: 0
Fire hazard: 0
Instability hazard: 0

15.4. Restrictions for application

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

Corrosive to the respiratory tract, Corrosive to the respiratory tract.
H301, Toxic if swallowed.
H302, Harmful if swallowed.
H311, Toxic in contact with skin.
H314, Causes severe skin burns and eye damage.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H330, Fatal if inhaled.
H335, May cause respiratory irritation.
H373, May cause damage to organs through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogKow = logarithm of the n-octanol/water coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

As an individual chemical compound, Ethylene Glycol (aka Mono Ethylene Glycol) is classified as Acute Tox 4 - H302 and STOT RE 2 - H373, according to Regulation (EC) No 1272/2008 and information provided in the REACH registration of this substance. However, it should be noted that Ethylene Glycol is not independently toxic. Specifically, the above classifications arise from the fact that, upon its metabolization in the liver by the enzyme Alcohol Dehydrogenase (ADH), Ethylene Glycol is ultimately converted into Glycolic Acid and Oxalic Acid. These acids are responsible for the common symptoms often observed in cases of Ethylene Glycol poisoning, including Metabolic Acidosis.

Additionally, the Oxalic Acid produced will bind to Serum Calcium in the blood to form Calcium Oxalate Crystals that deposit in the kidneys, causing acute kidney (renal) failure. A patented method of inhibiting the metabolization of Ethylene Glycol in the liver, through the addition of a detoxifier additive, has been used. This additive has been scientifically proven, by an EPA approved laboratory, to inhibit the formation of Glycolic Acid and Oxalic Acid, preventing Ethylene Glycol poisoning, including the deposition of Calcium Oxalate crystals in the kidneys. The test studies by Toxicon, Inc determined that by the occurrence of synergistic and antagonistic effects the addition of the additive to Ethylene Glycol detoxifies it, resulting in a mixture with an LD50 oral rat >15,000 mg/kg bw. By raising the LD50 to a level outside of classification as acutely toxic and preventing the targeting of the kidney by Calcium Oxalate Crystals, this mixture does not fall within the limits for classification as hazardous, as either Acute Tox 4 - H302 or STOT RE 2 - H373.

The safety data sheet is validated by

Dylan Redwood (Liquitherm Technologies Group)

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en