

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : Stoughcool E20 Blue
Formula : 30911

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.3. Details of the supplier of the safety data sheet**

Stoughcool LLC
600 South 10th Street
Broken Arrow, OK 74012
T 918-251-8195 - F 918-251-8197
sales@stoughcool.com

1.4. Emergency telephone number

Emergency number Chemtel : 800-255-3924

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (GHS-US)**

Skin Irrit. 2 H315
Eye Dam. 1 H318
Skin Sens. 1 H317

Full text of H-phrases: see section 16

2.2. Label elements**GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H315 – May cause skin irritation
H317 - May cause an allergic skin reaction
H318 – May cause serious eye damage

Precautionary statements (GHS-US) :

: P261 - Avoid breathing fumes
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear personal protective equipment
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
P310 - Immediately call doctor
P321 - Specific treatment (see first aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to meet all regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

2.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
6.27 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
2.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Ethanolamine	(CAS No) 141-43-5	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314
POLOXAMER 101	(CAS No) 9003-11-6	1 - 5	Acute Tox. 4 (Oral), H302
1,3,5-Triazine-1,3,5-(2H,4H,6H)-triethanol	(CAS No) 4719-04-4	0.785 - 2.355	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Nonanoic acid	(CAS No) 112-05-0	<= 1.41	Skin Corr. 1B, H314

Full text of H-phrases: see section 16

SECTION 4: First aid 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 : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. Specific treatment (see first aid measures on this label).
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

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 : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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 : Handle empty containers with care because residual vapors are flammable. Keep away from heat. - No smoking.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Avoid breathing fumes.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Stoughcool E20 Blue	
ACGIH	Not applicable
OSHA	Not applicable

Ethanolamine (141-43-5)		
ACGIH	ACGIH TWA (ppm)	3 ppm
ACGIH	ACGIH STEL (ppm)	6 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	3 ppm

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
ACGIH	Not applicable
OSHA	Not applicable

Nonanoic acid (112-05-0)	
ACGIH	Not applicable
OSHA	Not applicable

POLOXAMER 101 (9003-11-6)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

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Respiratory protection : Wear appropriate mask.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless
Odor : No data available
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : 8.5
Solubility : Water: Solubility in water of component(s) of the mixture:
• POTASSIUM HYDROXIDE: • Sodium hydroxide: 4200 g/l (at 0 °C) • Nonanoic acid: 0.26 g/l
• Octanoic acid: 0.68 g/l (at 20 °C) • Decanoic acid: 0.015 g/l (at 20 °C) • Dodecanedioic acid: < 100 mg/l (at 20 °C)
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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Ethanolamine (141-43-5)	
LD50 oral rat	1720 mg/kg
LD50 dermal rabbit	1000 mg/kg
ATE US (oral)	1720.000 mg/kg body weight
ATE US (dermal)	1000.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (dust, mist)	1.500 mg/l/4h

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
LD50 oral rat	763 mg/kg
ATE US (oral)	763.000 mg/kg body weight

Nonanoic acid (112-05-0)	
LD50 oral rat	> 5 g/kg

POLOXAMER 101 (9003-11-6)	
LD50 oral rat	2000 mg/kg
LC50 inhalation rat (mg/l)	320 mg/l/4h
ATE US (oral)	2000.000 mg/kg body weight
ATE US (vapors)	320.000 mg/l/4h
ATE US (dust, mist)	320.000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation : May cause an allergic skin reaction.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

Ethanolamine (141-43-5)	
LC50 fish 1	227 mg/l (Exposure time: 96 h - Species: Pimephales promelas[flow-through])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])

Nonanoic acid (112-05-0)	
LC50 fish 1	93.4 - 115 mg/l (Exposure time: 96 h - Species: Pimephales promelas[flow-through])
LC50 fish 2	68 - 121 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss[static])

POLOXAMER 101 (9003-11-6)	
LC50 fish 1	100 mg/l Leuciscus idus

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12.2. Persistence and degradability

Stoughcool E20 Blue	
Persistence and degradability	Not established.

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
Persistence and degradability	Not established.

Nonanoic acid (112-05-0)	
Persistence and degradability	Not established.

POLOXAMER 101 (9003-11-6)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Stoughcool E20 Blue	
Bioaccumulative potential	Not established.

Ethanolamine (141-43-5)	
Log Pow	-1.91 (at 25 °C)

1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
Bioaccumulative potential	Not established.

Nonanoic acid (112-05-0)	
Bioaccumulative potential	Not established.

POLOXAMER 101 (9003-11-6)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer :
Effect on the global warming : No known ecological damage caused by this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to meet all regulations.
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Not evaluated
Additional information
Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information

15.1. US Federal regulations

Ethanolamine (141-43-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
Nonanoic acid (112-05-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
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.
BASF 10R5, 17R4, 25R2 (9003-11-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Ethanolamine (141-43-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Nonanoic acid (112-05-0)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

Ethanolamine (141-43-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol (4719-04-4)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Nonanoic acid (112-05-0)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Ethanolamine (141-43-5)
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 Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical

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1,3,5-Triazine-1,3,5-(2H,4H,6H)-triethanol (4719-04-4)

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)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

Nonanoic acid (112-05-0)

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)
Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations

Ethanolamine (141-43-5)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

----- Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
----- Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
----- Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
----- Eye Dam. 1	Serious eye damage/eye irritation Category 1
----- Flam. Liq. 4	Flammable liquids Category 4
----- Skin Corr. 1A	Skin corrosion/irritation Category 1A
----- Skin Corr. 1B	Skin corrosion/irritation Category 1B
----- Skin Irrit. 2	Skin corrosion/irritation Category 2
----- Skin Sens. 1	Skin sensitization Category 1
----- H227	Combustible liquid
----- H302	Harmful if swallowed
----- H311	Toxic in contact with skin
----- H314	Causes severe skin burns and eye damage
----- H315	Causes skin irritation
----- H317	May cause an allergic skin reaction
----- H318	Causes serious eye damage
----- H332	Harmful if inhaled

GHS US SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product