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Date of issue: 08/12/2015

SECTION 1: IDENTIFICATION

Product Identifier 1.1.

Product Form: Mixture

Product Name: True Brand Upgrade Fuel System Cleaner

Product Part #: T2010

1.2. **Intended Use of the Product** Use of the substance/mixture: Automotive

1.3. Name, Address, and Telephone of the Responsible Party

Company

Solid Start, Inc. 3705 HWY 98 South Lakeland, FL 33812 863-937-9297 www.solidstart.biz

1.4. **Emergency Telephone Number**

Emergency Number : 813-248-0585 ChemTel

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eve Dam. 1 H318 STOT SE 3 H336 Aquatic Acute 2 H401 Aquatic Chronic 2 H411 Full text of H-phrases: see section 16

2.2. **Label Elements**

GHS-US Labeling

Hazard Pictograms (GHS-US)







Version: 1.0

Signal Word (GHS-US)

Hazard Statements (GHS-US)

: Danger

H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed. H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

P210 - Keep away from extremely high or low temperatures, ignition sources, and

incompatible materials. - No smoking. P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

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

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

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

Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Solvent naphtha, petroleum, medium aliphatic	(CAS No) 64742-88-7	36 - 45	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2-Butoxyethanol	(CAS No) 111-76-2	27 - 36	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Proprietary Component 1*	(CAS No) Proprietary	4.5 - 13.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Lubricating oils, petroleum, hydrotreated spent	(CAS No) 64742-58-1	4-10	Asp. Tox. 1, H304 Aquatic Acute 2, H401
Acetone	(CAS No) 67-64-1	0.5 - 4.5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Benzene, 1,2,4-trimethyl-	(CAS No) 95-63-6	0.5 - 4.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

^{*}The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret. Full text of H-phrases: see section 16

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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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/Injuries: Causes skin irritation. May cause drowsiness and dizziness. Harmful if swallowed. Causes serious eye damage.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not breathe vapor, mist or spray.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Eliminate ignition sources.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

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Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

6.4. Reference to Other Sections

For further information refer to sections 13 and 8.

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.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist or spray. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Automotive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Acetone (67-64-1)			
USA ACGIH	ACGIH TWA (ppm)	250 ppm	
USA ACGIH	ACGIH STEL (ppm)	500 ppm	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	590 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (ppm)	250 ppm	
USA IDLH	US IDLH (ppm)	2500 ppm (10% LEL)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
Benzene, 1,2	Benzene, 1,2,4-trimethyl- (95-63-6)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	125 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm	
2-Butoxyetha	2-Butoxyethanol (111-76-2)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm	
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	24 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm	
USA IDLH	US IDLH (ppm)	700 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm	
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption	

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

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Personal Protective Equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.











Materials for Protective Clothing

 $: \ Chemically \ resistant \ materials \ and \ fabrics. \ We ar \ fire/flame \ resistant/retardant$

clothing.

Hand Protection : Wear protective gloves.

Eye Protection: Chemical goggles or face shield.Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory

protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : Clear

Odor : No data available **Odor Threshold** : No data available Ηα : No data available : No data available **Evaporation Rate Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : No data available **Flash Point** : > 24 °C (75.2 °F) **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** : No data available Solubility : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

Partition Coefficient: N-Octanol/Water

Viscosity

- 10.1. Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.
- **10.2. Chemical Stability:** May form flammable or explosive vapor-air mixture.
- 10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

: No data available

: No data available

- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- **10.6.** Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed.

True Brand Upgrade Fuel System Cleaner	
ATE (Oral)	1,150.73 mg/kg body weight

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Lubricating oils, petroleum, hydrotreated spent (64742-58-1)			
LD50 Oral Rat	> 2000 mg/kg		
LD50 Dermal Rabbit	> 4480 mg/kg		
Solvent naphtha, petroleum, medium aliphatic (64	4742-88-7)		
LD50 Oral Rat	> 5000 mg/kg		
LD50 Dermal Rabbit	3000 mg/kg		
LC50 Inhalation Rat	> 5.28 mg/l/4h		
Proprietary Component 1	Proprietary Component 1		
LD50 Oral Rat	1310 mg/kg		
Acetone (67-64-1)			
LD50 Oral Rat	5800 mg/kg		
LD50 Dermal Rabbit	15688 mg/kg		
LC50 Inhalation Rat	44 g/m³		
Benzene, 1,2,4-trimethyl- (95-63-6)			
LD50 Oral Rat	6000 mg/kg		
LD50 Dermal Rabbit	> 3160 mg/kg		
LC50 Inhalation Rat	18 g/m³ (Exposure time: 4 h)		
2-Butoxyethanol (111-76-2)			
LD50 Oral Rat	470 mg/kg		
LC50 Inhalation Rat	450 ppm/4h		

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
National Toxicology Program (NTP) Status Evidence of Carcinogenicity.		
Acetone (67-64-1)		
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.	
2-Butoxyethanol (111-76-2)		
IARC group	3	

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. **Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects.

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)		
LC50 Fish 1	79.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])	
LC 50 Fish 2	3.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])	
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
LC50 Fish 1	800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Acetone (67-64-1)		
LC50 Fish 1	4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	

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LC 50 Fish 2	6210 (6210 - 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas
	[static])
EC50 Daphnia 2	12600 (12600 - 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)
Benzene, 1,2,4-trimethyl- (95-63-6)	
LC50 Fish 1	7.19 (7.19 - 8.28) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-
	through])
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
2-Butoxyethanol (111-76-2)	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and Degradability

True Brand Upgrade Fuel System Cleaner	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Acetone (67-64-1)	
Persistence and Degradability	Readily biodegradable in water.

12.3. Bioaccumulative Potential

True Brand Upgrade Fuel System Cleaner		
Bioaccumulative Potential	Not established.	
Solvent naphtha, petroleum, medium aliphat	ic (64742-88-7)	
BCF fish 1	(bioaccumulation expected)	
Acetone (67-64-1)		
BCF fish 1	0.69	
Log Pow	-0.24	
Log Kow	-0.24	
Benzene, 1,2,4-trimethyl- (95-63-6)		
Log Pow	3.63	
2-Butoxyethanol (111-76-2)		
Log Pow	0.81 (at 25 °C)	

12.4. Mobility in Soil: No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology – Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name : FLAMMABLE LIQUIDS, N.O.S. (Solvent naphtha, petroleum, medium aliphatic and Xylenes (o-,

m-, p- isomers))

Hazard Class : 3
Identification Number : UN1993
Label Codes : 3
Packing Group : III

Marine Pollutant : Marine pollutant

14.2. In Accordance with IMDG

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, petroleum, medium aliphatic and Xylenes (o-,

m-, p- isomers))

Hazard Class : 3

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: 3H

Identification Number: UN1993Packing Group: IIILabel Codes: 3EmS-No. (Fire): F-EEmS-No. (Spillage): S-E



Marine Pollutant : Marine pollutant

14.3. In Accordance with IATA

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, petroleum, medium aliphatic and Xylenes (o-,

m-, p- isomers))

Packing Group : III
Identification Number : UN1993
Hazard Class : 3
Label Codes : 3



SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

ERG Code (IATA)

15.1 US rederal Regulations		
True Brand Upgrade Fuel System Cleaner		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard	
Lubricating oils, petroleum, hydrotreated spent (64742-	58-1)	
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory	
Solvent naphtha, petroleum, medium aliphatic (64742-8	88-7)	
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory	
Proprietary Component 1		
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory	
Acetone (67-64-1)		
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule	
	under TSCA.	
Benzene, 1,2,4-trimethyl- (95-63-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313		
SARA Section 313 - Emission Reporting 1.0 %		
2-Butoxyethanol (111-76-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2 US State Regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

Acetone (67-64-1)

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

Benzene, 1,2,4-trimethyl- (95-63-6)

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

2-Butoxyethanol (111-76-2)

- 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

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date

: 08/12/2015

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Inhalation:vapour) Acute tox. 4 (Dermal) Acute toxicity (inhalation:vapour) Category 4 Acute Tox. 4 (Permal) Acute tox. 4 (Cermal) Acute tox. 4 (Inhalation:vapour) Acute Tox. 4 (Inhalation:vapour) Acute Tox. 4 (Inhalation:vapour) Acute Tox. 4 (Oral) Ac		
Acute Tox. 4 (Inhalation:vapour) Acute Tox. 4 (Oral) Acute Tox. 5 (Oral) Acute Tox. 5 (Oral) Acute Tox. 5 (Oral) Acute Tox. 6 (Oral) Acute Tox. 7	Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 4 (Oral) Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3 Asp. Tox. 1 Aspiration hazard Category 1 Eye Dam. 1 Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2A Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 3 Flam. Liq. 4 Flammable liquids Category 3 Flam. Liq. 4 Flammable liquids Category 4 Skin corrosion/irritation Category 4 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H300 Harmful if swallowed H304 May be fatal if swallowed H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye damage H330 Harmful if inhaled H331 Harmful if inhaled H332 Harmful if inhaled H335 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Aquatic Acute 2 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Irrit. 2A Flam. Liq. 2 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 2 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 2 Flam. Liq. 4 Flam. Liq. 2 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 5 Flore E Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flam. Liq. 6 Flam. Liq. 1 Flam. Liq. 1 Flam. Liq. 1 Flam. Liq. 2 Flam. Liq. 3 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 5 Flam. Liq. 4 Flam. Liq. 6 Flam. Liq. 6 Flam. Liq. 8 Flam. Liq. 9 Flam. Liq. 1 Flam. Liq. 1	Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 2 Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 3 Asp. Tox. 1 Aspiration hazard Category 1 Eye Dam. 1 Serious eye damage/eye irritation Category 2 Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 3 Flam. Liq. 4 Flammable liquids Category 4 Skin Irrit. 2 Specific target organ toxicity (single exposure) Category 3 Flam. Liq. 4 Flammable liquids Category 4 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Flammable liquid and vapor Flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye damage H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause drowsiness or dizziness H401 Toxic to aquatic life with long lasting effects	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 3 Asp. Tox. 1 Aspiration hazard Category 1 Eye Dam. 1 Eye Dam. 1 Eye Irrit. 2A Flam. Liq. 2 Flam. Liq. 3 Flam. Liq. 4 Skin Irrit. 2 Socious eye damage/eye irritation Category 2 Flam. Liq. 4 Skin Irrit. 2 Socious eye damage/eye irritation Category 2 Flam. Liq. 5 Flam. Liq. 6 Skin Irrit. 7 Skin Irrit. 8 Specific target organ toxicity (single exposure) Category 3 Flam. Liq. 6 Flammable liquid and vapor H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye damage H330 Harmful in Incontact with skin H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation May cause drowsiness or dizziness H401 Toxic to aquatic life with long lasting effects	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2A Flam. Liq. 2 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 3 Flam. Liq. 4 Flammable liquids Category 4 Skin Irrit. 2 Skin corrosion/irritation Category 4 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye damage H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2A Flam. Liq. 2 Flam. Liq. 3 Flammable liquids Category 3 Flam. Liq. 4 Flammable liquids Category 4 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H335 May cause drowsiness or dizziness H401 Toxic to aquatic life with long lasting effects	Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2A Serious eye damage/eye irritation Category 2 Flam. Liq. 2 Flam. Liq. 3 Flam. Liq. 3 Flam. Liq. 4 Flam. Liq. 5 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 6 Skin corrosion/irritation Category 4 Skin Irrit. 7 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye damage H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2 Flam. Liq. 3 Flam. Liq. 3 Flam. Liq. 4 Flam. Liq. 2 Flam. Liq. 3 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 3 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 4 Flam. Liq. 3 Flam. Liq. 3 Flam. Liq. 3 Flam. Liq. 4 Flam.	Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3 Flam. Liq. 4 Flam. 4 Flam. Liq. 4 Flam. 4 Flam. Liq. 6 Flam. 1 Flam. Liq. 6 Flam. L	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4 Flammable liquids Category 4 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life With long lasting effects	Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Flam. Liq. 3	Flammable liquids Category 3
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Flam. Liq. 4	Flammable liquids Category 4
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	Skin Irrit. 2	Skin corrosion/irritation Category 2
H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226 Flammable liquid and vapor H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227 Combustible liquid H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H225	Highly flammable liquid and vapor
H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H226	Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways H312 Harmful in contact with skin H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H227	Combustible liquid
H312Harmful in contact with skinH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH401Toxic to aquatic lifeH411Toxic to aquatic life with long lasting effects	H302	Harmful if swallowed
H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H304	May be fatal if swallowed and enters airways
H318 Causes serious eye damage H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H312	Harmful in contact with skin
H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H315	Causes skin irritation
H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H318	Causes serious eye damage
H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H319	Causes serious eye irritation
H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H331	Toxic if inhaled
H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H332	Harmful if inhaled
H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects	H335	May cause respiratory irritation
H411 Toxic to aquatic life with long lasting effects	H336	May cause drowsiness or dizziness
	H401	Toxic to aquatic life
H412 Harmful to aquatic life with long lasting effects	H411	Toxic to aquatic life with long lasting effects
	H412	Harmful to aquatic life with long lasting effects

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.

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