Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 02/14/2020 Date of Issue: 09/11/2015

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1.1. Product Identifier

SECTION 1: IDENTIFICATION

Product Form: Mixture

Product Name: True Brand Fuel Juels

Product Part #: FJ208

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

2801 Saluda Road. Lakeland, FL 33801 863-937-9297

www.solidstart.com

1.4. Emergency Telephone Number

Emergency Number: 813-248-0585 ChemTel

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1B	H350
Repr. 1B	H360
STOT SE 3	H336
STOT SE 3	H335
Asp. Tox. 1	H304
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

Full text of hazard classes and H-statements : see Section 16.

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)











Version: 2.0

Signal Word (GHS-US)

Hazard Statements (GHS-US)

: Danger

: H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H311 - Toxic in contact with skin. H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H340 - May cause genetic defects.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H401 - Toxic to aquatic life.

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Precautionary Statements (GHS-US)

- H411 Toxic to aquatic life with long lasting effects.
- : P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P210 Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. No smoking.
 - P240 Ground/Bond container and receiving equipment.
 - P241 Use explosion-proof electrical, ventilating, and lighting equipment.
 - P242 Use only non-sparking tools.
 - P243 Take precautionary measures against static discharge.
 - 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.
 - P272 Contaminated work clothing must not be allowed out of the workplace.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves, protective clothing, and eye protection.
 - P301+P310 If swallowed: Immediately call a poison center or doctor.
 - P301+P312 If swallowed: Call a poison center or doctor if you feel unwell.
 - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - 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.
 - P321 Specific treatment (see Section 4 on this SDS).
 - P322 Specific treatment (see supplemental first aid instruction on this label).
 - P330 Rinse mouth.
 - P331 Do NOT induce vomiting.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
 - P362+P364 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.
 - P308+310+313 If exposed or concerned: Get medical advice/attention.
 - Immediately call a poison center or doctor.

2.3. Other Hazards

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

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Solvent naphtha, petroleum, medium aliphatic	(CAS-No.) 64742-88-7	29.6-37	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411

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2-Butoxyethanol	(CAS-No.) 111-76-2	22.2-29.6	Flam. Liq. 4, H227
·			Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapor), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
Xylenes (o-, m-, p- isomers)	(CAS-No.) 1330-20-7	>20	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Poly(oxy-1,2-ethanediyl), .alpha(4-nonylphenyl)omegahydroxy-, branched	(CAS-No.) 127087-87-0	3.7 - 11.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Benzene, 1,2,4-trimethyl-	(CAS-No.) 95-63-6	0.5 - 3.7	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapor), 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
Acetone	(CAS-No.) 67-64-1	0.5 - 3.7	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Turpentine, oil	(CAS-No.) 8006-64-2	0.5-1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Solvent naphtha, petroleum, light aliphatic	(CAS-No.) 64742-89-8	0.5 - 0.6	Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Toluene	(CAS-No.) 108-88-3	0.15	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Proprietary Component 1	(CAS-No.) Proprietary	1-5	Not classified (polymers)
Polyetheramine (PEA) Additives	(CAS-No.) Proprietary	0.15	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Ethylbenzene	(CAS-No.) 100-41-4	0.1 - 0.15	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapor), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
1-Methyl-2-pyrrolidone	(CAS-No.) 872-50-4	>0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

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: 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. Get immediate medical advice/attention.

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

First-aid Measures After Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes skin irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Harmful if swallowed. Toxic in contact with skin. Causes serious eye damage. Skin sensitization. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes. 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. This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes. May cause an allergic skin reaction.

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. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: May cause genetic defects. May cause cancer. May damage fertility or the unborn child.

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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: Highly flammable liquid and vapor.

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.

Hazardous Combustion Products: Irritating fumes, smoke, oxides of carbon and hydrocarbons.

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 protective equipment (PPE).

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

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: 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. Ventilate area. 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 Materials 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.

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

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 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. Store locked up.

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Incompatible Materials: 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), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

		rincluding: ACGIR (TLV), AIRA (WEEL), NIOSR (REL), OF OSRA (PEL).
	anol (111-76-2)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	Biological Exposure Indices (BEI)	200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis -
		Medium: urine - Sampling time: end of shift
USA NIOSH	NIOSH REL (TWA) (mg/m³)	24 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
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 ACGIH	Biological Exposure Indices (BEI)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end
		of shift (nonspecific)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	590 mg/m³
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
	,4-trimethyl- (95-63-6)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	125 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
	m-, p- isomers) (1330-20-7)	25 ppm
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIT TWA (ppin) ACGIH STEL (ppm)	150 ppm
USA ACGIH	ACGIH STEE (ppin) ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	Biological Exposure Indices (BEI)	1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine -
USA ACGIN	Biological Exposure Illuices (BEI)	Sampling time: end of shift
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m ³
USA OSHA	OSHA PEL (TWA) (Ing/III)	100 ppm
	, , , , ,	100 ppm
	oil (8006-64-2)	20 nnm
USA ACGIH	ACCIH shomisəl sətəqəri	20 ppm dermal sensitizer,Not Classifiable as a Human Carcinogen
USA ACGIH USA NIOSH	ACGIH chemical category NIOSH REL (TWA) (mg/m³)	560 mg/m ³
USA NIOSH		
-	NIOSH REL (TWA) (ppm)	100 ppm
USA IDLH	US IDLH (ppm)	800 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	560 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Ethylbenzene		20
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	Biological Exposure Indices (BEI)	0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift
		(nonspecific)

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LICA NIIOCII	NIOCH DEL /TM/A\ /ma/m³\	125 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	435 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	545 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	125 ppm
USA IDLH	US IDLH (ppm)	800 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
	yrrolidone (872-50-4)	
USA ACGIH	Biological Exposure Indices (BEI)	100 mg/l Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone - Medium:
		urine - Sampling time: end of shift
USA AIHA	WEEL TWA (ppm)	10 ppm
USA AIHA	AIHA chemical category	skin notation
2-Butoxyetha	anol (111-76-2)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	Biological Exposure Indices (BEI)	200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis -
		Medium: urine - Sampling time: end of shift
USA NIOSH	NIOSH REL (TWA) (mg/m³)	24 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
Toluene (108	3-88-3)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	Biological Exposure Indices (BEI)	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time:
		prior to last shift of workweek
		0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end
		of shift
		0.3 mg/g Kreatinin Parameter: o-Cresol with hydrolysis - Medium:
		urine - Sampling time: end of shift (background)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	375 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA IDLH	US IDLH (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
USA OSHA	Acceptable Maximum Peak Above The	500 ppm Peak (10 minutes)
	Acceptable Ceiling Concentration For An 8-	
	Hr Shift	
Q 2 Evn	ocura Cantrals	

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.

Personal Protective Equipment

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











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Materials for Protective Clothing : Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant

clothing.

Hand Protection: Wear protective gloves.Eye and Face Protection: Chemical safety goggles.

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 : No data available рΗ **Evaporation Rate** : No data available **Melting Point** : No data available : No data available **Freezing Point** : No data available **Boiling Point Flash Point** : 26°C (78.8°F) **Auto-ignition Temperature** : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : Not applicable **Vapor Pressure** : No data available Relative Vapor Density at 20°C : No data available **Relative Density** No data available : No data available Solubility **Partition Coefficient: N-Octanol/Water** : No data available Viscosity : No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.
- 10.2. Chemical Stability: Highly flammable liquid and vapor. 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.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- **10.6.** Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

True Brand Fuel Juels		
ATE (Oral)	1,352.74 mg/kg body weight	
ATE (Dermal)	843.52 mg/kg body weight	
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
LD50 Oral Rat	> 25 ml/kg	
LD50 Dermal Rabbit	> 3000 mg/kg	
LC50 Inhalation Rat	> 13 mg/l/4h	
2-Butoxyethanol (111-76-2)		
LD50 Oral Rat	470 mg/kg	

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LD50 Dermal Rabbit	> 841 mg/kg		
LC50 Inhalation Rat	2.2 mg/l/4h		
ATE (Dermal)	300.00 mg/kg body weight		
Poly(oxy-1,2-ethanediyl), .alpha(4-nonylphenyl)	omegahydroxy-, branched (127087-87-0)		
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)		
LC50 Inhalation Rat	10.8 mg/l/4h		
Xylenes (o-, m-, p- isomers) (1330-20-7)	1 0		
LD50 Oral Rat	> 5000 mg/kg		
LC50 Inhalation Rat	27.57 mg/l/4h		
ATE (Dermal)	1,100.00 mg/kg body weight		
ATE (Vapors)	11.00 mg/l/4h		
Turpentine, oil (8006-64-2)			
LD50 Oral Rat	4.6 ml/kg		
LD50 Dermal Rabbit	> 5010 mg/kg		
LC50 Inhalation Rat	12 g/m³ (Exposure time: 6 h)		
LC50 Inhalation Rat	13.7 mg/l/4h		
ATE (Oral)	500.00 mg/kg body weight		
ATE (Dermal)	1,100.00 mg/kg body weight		
Solvent naphtha, petroleum, light aliphatic (6474	2-89-8)		
LD50 Oral Rat	>= 5000 mg/kg		
LD50 Dermal Rabbit	3000 mg/kg		
Ethylbenzene (100-41-4)			
LD50 Oral Rat	3500 mg/kg		
LD50 Dermal Rabbit	15400 mg/kg		
LC50 Inhalation Rat	17.2 mg/l/4h (Exposure time: 4 h)		
1-Methyl-2-pyrrolidone (872-50-4)			
LD50 Oral Rat	4150 mg/kg		
LD50 Dermal Rabbit	> 5000 mg/kg		
LC50 Inhalation Rat	5.1 mg/l/4h		
LC50 Inhalation Rat	5.1 mg/l/4h		
2-Butoxyethanol (111-76-2)			
LD50 Oral Rat	470 mg/kg		
LD50 Dermal Rabbit	435 mg/kg		
LC50 Inhalation Rat	2.2 mg/l/4h		
LC50 Inhalation Rat	486 ppm/4h		
Toluene (108-88-3)			
LD50 Oral Rat	2600 mg/kg		
LD50 Dermal Rabbit	12000 mg/kg		
LC50 Inhalation Rat	25.7 mg/l/4h		
Skin Corrosion/Irritation: Causes skin irritation.			

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: May cause genetic defects.

Carcinogenicity: May cause cancer.

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National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.	
2-Butoxyethanol (111-76-2)		
IARC group	3	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
IARC group	3	
Ethylbenzene (100-41-4)		
IARC group	2B	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.	
2-Butoxyethanol (111-76-2)		
IARC group	3	
Toluene (108-88-3)		
IARC group	3	
Polytetrafluoroethylene (9002-84-0)		
IARC group	3	

Reproductive Toxicity: May damage fertility or the unborn child.

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

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes. 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. This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes. May cause an allergic skin reaction.

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. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: May cause genetic defects. May cause cancer. May damage fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

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)		
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)		
LC50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)		
Poly(oxy-1,2-ethanediyl), .alpha(4-nonyl	phenyl)omegahydroxy-, branched (127087-87-0)		
LC50 Fish 1	11.6 mg/l		
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])		
LC50 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)		
Xylenes (o-, m-, p- isomers) (1330-20-7)	Xylenes (o-, m-, p- isomers) (1330-20-7)		
LC50 Fish 1	3.3 mg/l		

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EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)	
LC50 Fish 2	2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss	
	[static])	
NOEC Chronic Crustacea	1.17	
Turpentine, oil (8006-64-2)		
LC50 Fish 1	29 mg/l (Exposure time: 96 h - Species: Danio rerio)	
EC50 Daphnia 1	6.4 (Exposure time: 48 h - Species: Daphnia magna)	
ErC50 (Algae)	17.1 mg/l (Exposure time 72 h - Species: Desmodesmus subspicatus)	
Solvent naphtha, petroleum, light aliphat	ic (64742-89-8)	
LC50 Fish 1	>= 8.2 mg/l Exposure time 96 hour Species: Pimephales promelas	
NOEC Chronic Fish	14 day exposure Species: Pimephales promelas LC50: 5.2 mg/l	
Ethylbenzene (100-41-4)		
LC50 Fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])	
NOEC Chronic Crustacea	0.956 mg/l	
1-Methyl-2-pyrrolidone (872-50-4)		
LC50 Fish 1	832 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	4897 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	1072 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
NOEC Chronic Crustacea	12.5 mg/l	
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)	
LC50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
Toluene (108-88-3)		
LC50 Fish 1	15.22 (15.22 - 19.05) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	5.46 (5.46 - 9.83) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 Fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
NOEC Chronic Fish	1.4 mg/l (Oncorhynchus kisutch)	
NOEC Chronic Crustacea	0.74 mg/l (Ceriodaphnia dubia)	
12.2 Parsistance and Dogradability		

12.2. Persistence and Degradability

True Brand Fuel Juels	
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 Fuel Juels		
Bioaccumulative Potential	Not established.	
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
BCF Fish 1	(bioaccumulation expected)	
2-Butoxyethanol (111-76-2)		
Log Pow	0.81 (at 25 °C)	
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	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
BCF Fish 1	0.6 (0.6 - 15)	

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Log Pow	2.77 - 3.15
Ethylbenzene (100-41-4)	
BCF Fish 1	15
Log Pow	3.2
1-Methyl-2-pyrrolidone (872-50-4)	
Log Pow	-0.46 (at 25 °C)
2-Butoxyethanol (111-76-2)	
Log Pow	0.81 (at 25 °C)
Toluene (108-88-3)	
Log Pow	2.7

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

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : FLAMMABLE LIQUIDS, TOXIC, N.O.S., (Solvent naphtha, petroleum, 2-Butoxyethanol)

Hazard Class: 3Identification Number: UN1992Label Codes: 3, 6.1

Packing Group : II

Marine Pollutant : Marine pollutant

ERG Number : 131 14.2. In Accordance with IMDG

Proper Shipping Name : FLAMMABLE LIQUIDS, TOXIC, N.O.S., (Solvent naphtha, petroleum, 2-Butoxyethanol)

Hazard Class : 3
Subsidiary Risk(s) : 6.1
Identification Number : UN1992
Packing Group : II
Label Codes : 3, 6.1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D

Marine Pollutant : Marine pollutant



14.3. In Accordance with IATA

Proper Shipping Name : FLAMMABLE LIQUIDS, TOXIC, N.O.S., (Solvent naphtha, petroleum, 2-Butoxyethanol)

Packing Group : II

Identification Number: UN1992Hazard Class: 3Label Codes: 3, 6.1Subsidiary Risk(s): 6.1ERG Code (IATA): 3HP



SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

	-0
True Brand Fuel Juels	

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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules an	d Regulations
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids)
	Health hazard - Acute toxicity (any route of exposure)
	Health hazard - Aspiration hazard
	Health hazard - Carcinogenicity
	Health hazard - Respiratory or skin sensitization
	Health hazard - Germ cell mutagenicity
	Health hazard - Reproductive toxicity
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Skin corrosion or Irritation
	Health hazard - Specific target organ toxicity (single or repeated
	exposure)
Solvent naphtha, petroleum, medium aliphatic (64742-8	8-7)
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
2-Butoxyethanol (111-76-2)	
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
Poly(oxy-1,2-ethanediyl), .alpha(4-nonylphenyl)omeg	ahydroxy-, branched (127087-87-0)
Listed on the United States TSCA (Toxic Substances Control	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the
, ,	Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA
	Inventory Data Base Production and Site Reports (40 CFR 710(C)).
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
CERCLA RQ	5000 lb
Benzene, 1,2,4-trimethyl- (95-63-6)	
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
Subject to reporting requirements of United States SARA	·
SARA Section 313 - Emission Reporting	1 %
Xylenes (o-, m-, p- isomers) (1330-20-7)	
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
Subject to reporting requirements of United States SARA	
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1%
Turpentine, oil (8006-64-2)	1 7 7
Listed on the United States TSCA (Toxic Substances Control	ol Act) inventory
Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
Listed on the United States TSCA (Toxic Substances Control	
Ethylbenzene (100-41-4)	or Act, inventory
· · · · · · · · · · · · · · · · · · ·	al Acthinyantany
Listed on the United States TSCA (Toxic Substances Control Subject to reporting requirements of United States SARA	·
CERCLA RQ	1000 lb
SARA Section 313 - Emission Reporting	0.1 %
	U.1 /0
1-Methyl-2-pyrrolidone (872-50-4)	al Anthim, anthom,
Listed on the United States TSCA (Toxic Substances Control	·
Subject to reporting requirements of United States SARA SARA Section 313 - Emission Reporting	1 %
	1 /0
2-Butoxyethanol (111-76-2)	ol Acthinyoptomy
Listed on the United States TSCA (Toxic Substances Contro	or Act, inventory
Toluene (108-88-3)	-1 A -4\ '
Listed on the United States TSCA (Toxic Substances Contro	
Subject to reporting requirements of United States SARA	
CERCLA RQ	1000 lb
SARA Section 313 - Emission Reporting	1 %
Polytetrafluoroethylene (9002-84-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the
	Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA
	Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2. US State Regulations

Ethylbenzene (100-41-4)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.
1-Methyl-2-pyrrolidone (872-50-4)	
U.S California - Proposition 65 - Developmental	WARNING: This product contains chemicals known to the State of
Toxicity	California to cause birth defects.
Toluene (108-88-3)	
U.S California - Proposition 65 - Developmental	WARNING: This product contains chemicals known to the State of
Toxicity	California to cause birth defects.

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

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

Xylenes (o-, m-, p- isomers) (1330-20-7)

- 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

Turpentine, oil (8006-64-2)

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

Ethylbenzene (100-41-4)

- 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

1-Methyl-2-pyrrolidone (872-50-4)

- 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

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

Toluene (108-88-3)

- 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

Polytetrafluoroethylene (9002-84-0)

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U.S. - Pennsylvania - RTK (Right to Know) List

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

Date of Preparation or Latest Revision : 02/14/2020

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:

uii Text Phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	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
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 1B	Reproductive toxicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H224	Extremely 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
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful to aquatic life
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.

SDS US (GHS HazCom)

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