



# SAFETY DATA SHEET

Revised on 05/30/2015

## Section 1: IDENTIFICATION

### Product identifier:

**Product name:** Formula One  
Degreaser Concentrate Cleaner

### Others means of identification:

**Product code:** 106180-84  
**UN/ID No:** UN3266

**Recommended use:** For industrial use only.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

**Company name:** Pioneer Brite, Inc.  
**Address:** 1381 Heistan Place  
Memphis, TN 38104  
**Telephone:** 1-800-783-7320  
**E-mail:** [info@pioneerbrite.com](mailto:info@pioneerbrite.com)  
**Website:** [www.pioneerbrite.com](http://www.pioneerbrite.com)

### Emergency telephone number

For emergencies in the U.S., call Infotrac at 1-800-535-5053

For emergencies outside U.S., call Infotrac Collect at 01-352-323-3500 (account #77500)

## Section 2: HAZARD(S) IDENTIFICATION

**Classification of the substance or mixture** *In accordance with 29 CFR paragraph (d) of §1910.1200*

**Appearance:** Clear Red Liquid      **Physical State:** Liquid      **Odor:** Bland


### Classification

Skin corrosion/irritation Category 1 Sub-category B

Serious eye damage/eye irritation Category 1

### Label elements:

**Signal word:** Danger

GHS Pictograms	Hazard Statements	Precautionary Statements
	Causes severe skin burns and eye damage	Do not breathe dust /fume /gas /mist /vapors /spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves /protective clothing /eye protection/face protection.

**Additional Hazards:** None Known

**Unknown Acute Toxicity:** 2.90% of mixture consists of ingredients(s) of unknown toxicity

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### Section 3: COMPOSITION/INFORMATION OF INGREDIENTS

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#### Mixtures

<u>Chemical name</u>	<u>CAS #</u>	<u>% by weight</u>
Potassium hydroxide	1310-58-3	< 8
D-Sodium Silicate Solution	1344-09-8	< 2
EDTA	60-00-4	< 2
Sodium Hydroxide	1310-73-2	< 2
Proprietary	Proprietary	< 2
Triethanolamine	102-71-6	< 2

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### Section 4: FIRST AID MEASURES

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#### Description of first aid measures

<b>Eye Contact:</b>	<b>P305 + P351 + P338</b> – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P311</b> – Call a POISON CENTER or doctor/physician.
<b>Skin Contact:</b>	<b>P303 + P361 + P353</b> – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. <b>P363</b> – Wash contaminated clothing before reuse.
<b>Inhalation:</b>	<b>P340</b> – Remove victim to fresh air and keep at rest in a position comfortable for breathing. <b>P311</b> – Call a POISON CENTER or doctor/physician.
<b>Ingestion:</b>	<b>P301 + P330 + P331</b> – IF SWALLOWED: rinse mouth. Do NOT induce vomiting. <b>P311</b> – Call a POISON CENTER or doctor/physician.

#### Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

#### Indication of immediate medical attention and special treatment needed

Notes to Physician      Treat symptomatically.

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### Section 5: FIRE-FIGHTING MEASURES

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#### Extinguishing media

Suitable extinguishing media:      Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:      Not determined.

#### Special hazards arising from the substance or mixture

Material is corrosive.

#### Special protective equipment and advice for firefighters

Special hazards:      As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## Section 6: ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Prevent from entering into soil, ditches, sewers, waterways and /or groundwater. See Section 12, Ecological information. See Section 13: Disposal Considerations.

### Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Keep in suitable, closed containers for disposal.

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## Section 7: HANDLING AND STORAGE

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### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of the reach of children.

**Incompatible Materials:** Acids, Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.

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## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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### Control parameters

OSHA permissible exposure limit and any other exposure limit used or recommended:

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Sodium hydroxide, 1310-73-2	Ceiling: 2mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated)Ceiling: 2mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Potassium hydroxide, 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated)Ceiling:2mg/m <sup>3</sup>	Ceiling:3mg/m <sup>3</sup>
Triethanolamine, 102-71-6	TWA: 5 mg/m <sup>3</sup>		
Proprietary	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated)TWA: 400ppm (vacated)TWA: 980 mg/m <sup>3</sup> (vacated)STEL: 500 ppm (vacated)STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

**Engineering Controls:** Apply technical measures to comply with the occupational exposure limits.  
Eyewash stations. Showers.

### Personal protection measures

**General protective and hygienic measures:** Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

**Eye/Face protection:** Wear approved safety goggles where a splash hazard exists.

**Skin protection:** Wear suitable protective clothing.

**Respiratory protection:** Ensure adequate ventilation, especially in confined areas.

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

Appearance:	Clear red liquid	
Color:	Red	
Odor:	Bland	
Odor threshold:	Not Determined	
Physical state:	Liquid	
pH:	13.2 (concentrate)	
Boiling point:	100o C/ 212o F	IBP
Melting point:	Not Determined	
Specific gravity:	1.06	
Flash point:	None to boiling	
Evaporation rate:	Equal to water	
Flammability (with limits):	Liquid-not applicable (Limits- Not Determined)	
Vapor pressure:	Not Determined	
Vapor density:	Not Determined	
Relative density:	8.82 lb./gal	
Solubility:	Complete	
Auto-ignition temperature:	Not Determined	
Decomposition temperature:	Not Determined	
Viscosity:	Water thin (< 5 cps)	
Partition coefficient:	Not Determined	

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## Section 10: STABILITY AND REACTIVITY

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<b>Reactivity:</b>	Not reactive under normal conditions.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	None under normal processing.
<b>Conditions to avoid:</b>	Keep out of reach of children.
<b>Incompatible materials:</b>	Acids. Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.
<b>Hazardous decomposition products:</b>	None known based on information supplied.

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## Section 11: TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

<b>Eye contact:</b>	Causes severe eye damage.
<b>Skin contact:</b>	Causes severe skin burns.
<b>Ingestion:</b>	Do not taste or swallow.
<b>Inhalation:</b>	Avoid breathing vapors or mists.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water, 7732-18-5	>90 mL/kg (Rat)	-	-
Potassium hydroxide, 1310-58-3	=214 mg/kg (Rat)	-	-
Alkyl Phenol Ethoxylate	=1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	-
D-Sodium Silicate Solution	=1153 mg/kg (Rat)	>4640 mg/kg (Rabbit)	-
EDTA, 60-00-4	=1700 mg/kg (Rat)	-	-
Sodium hydroxide, 1310-73-2	-	=1350 mg/kg (Rabbit)	-
Proprietary	=20000 mg/kg (Rat)	=20800 mg/kg (Rabbit)	-
Triethanolamine	=4190 mg/kg (Rat)	>2000 mg/kg (Rabbit) > 16	-
Proprietary	=4396 mg/kg (Rat)	=12800 mg/kg (Rat) = 12870	=72.6 mg/L (Rat) 4 h

## Symptoms related to the physical, chemical and toxicological characteristics

Please see section 4 of this SDS for symptoms.

## Information on toxicological effects

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.  
Group 3 IARC components are “not classifiable as human carcinogens”.

#### Chemical Name

Triethanolamine, 102-71-6

#### ACGIH

#### IARC

#### NTP

#### OSHA

Group 3

NOTES: ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are “not classified as human carcinogens”

#### Numerical measures of toxicity

Not Determined

#### Unknown Acute Toxicity

2.90% of the mixture consists of ingredient(s) of unknown toxicity.

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## Section 12: ECOLOGICAL INFORMATION

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**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide 1310-58-3	-	80: 96 h <i>Gambusia affinis</i> mg/L LC50 static	-	
EDTA 60-00-4	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	34-62: 96 h <i>Lepomis macrochirus</i> mg/L LC50 Static 44.2 -76.5: 96 h <i>Pimephales promelas</i> mg/L LC50 static	-	113: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Triethanolamine 102-71-6	216: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 169: 96 h <i>Desmodesmus Subspicatus</i> mg/L EC50	10600 – 13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1000: 96 h <i>Pimephales promelas</i> mg/L LC50 static 450 -1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-	1386: 24 h <i>Daphnia magna</i> mg/L EC50
D-Sodium Silicate Solution 1344-09-8	-	301-478: 96 h <i>Lepomis macrochirus</i> mg/L LC50 3158: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static	-	216: 96 h <i>Daphnia magna</i> mg/L EC50
Sodium hydroxide 1310-73-2		45.4: 96h <i>Oncorhynchus mykiss</i> mg/L LC50 static		
Proprietary	19000: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	51600: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 41-47: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 51400: 96 h <i>Pimephales Promelas</i> mg/L LC50 static 710: 96 h <i>Pimephales Promelas</i> mg/L LC50	-	10000: 24 h <i>Daphnia magna</i> mg/L E50 1000: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Proprietary	1000: 96 h <i>Desmodesmus Subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus</i>	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h	-	13299: 48 h <i>Daphnia magna</i> mg/L EC50

Subspicatus mg/L EC50      Pimephales promelas mg/L  
LC50 static 1400000: 96 h  
Lepomis macrochirus ug/L  
LC50

**Persistence and degradability:** Not Determined.  
**Bioaccumulative potential:** Not Determined.

**Mobility:**

<u>Chemical Name</u>	<u>Partition Coefficient</u>
Potassium hydroxide, 1310-58-3	0.83
Triethanolamine, 102-71-6	-2.53

**Other adverse effects:** Not Determined.

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### Section 13: DISPOSAL CONSIDERATIONS

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**Disposal instructions:**

Wastes- Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging- Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

<u>Chemical Name</u>	<u>California Hazardous Waste Status</u>
Potassium Hydroxide 1310-58-3	Toxic Corrosive
Sodium Hydroxide 1310-73-2	Toxic Corrosive

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### Section 14: TRANSPORT INFORMATION

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**DOT**

**UN number:** UN3266  
**UN proper shipping name:** Corrosive liquid,basic, inorganic, n.o.s.(Potassium Hydroxide)  
**Transport hazard class(es)**  
**Class:** 8  
**Packing group:** II

**IATA**

**UN/ID NO** UN3266  
**UN proper shipping name:** Corrosive liquid,basic, inorganic, n.o.s.(Potassium Hydroxide)  
**Transport hazard class(es)**  
**Class:** 8  
**Packing group:** II

**IMDG**

**UN number:** UN3266  
**UN proper shipping name:** Corrosive liquid,basic, inorganic, n.o.s.(Potassium Hydroxide)  
**Transport hazard class(es)**  
(Insert hazardous label, as seen on package)  
**Class:** 8  
**Packing group:** II

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## Section 15: REGULATORY INFORMATION

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### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **International Inventories**

**Not Determined**

#### **Legend:**

**TSCA-** United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL-** Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS-** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS-** Japan Existing and New Chemical Substances  
**IECSC-** China Inventory of Existing Chemical Substances  
**KECL-** Korean Existing and Evaluated Chemical Substances  
**PICCS-** Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

##### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<b><u>Chemical Name</u></b>	<b><u>Hazardous Substances RQs</u></b>	<b><u>CERCLA/SARA RQ</u></b>	<b><u>Reportable Quantity (RQ)</u></b>
Potassium Hydroxide 1310-58-3	1000 lb		RQ 1000lb final RQ RQ 454kg final RQ
EDTA 60-00-4	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986(SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<b><u>Component</u></b>	<b><u>CWA-Reportable Quantities</u></b>	<b><u>CWA-Toxic Pollutants</u></b>	<b><u>CWA-Priority Pollutants</u></b>	<b><u>CWA-Hazardous Substances</u></b>
Potassium hydroxide 1310-58-3 (<5)	1000 lb			X
EDTA 60-00-4 (<1)	5000 lb			X
Sodium hydroxide 1310-73-2	1000 lb			X

#### **US State Regulations**

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

<u>Chemical Name</u>	<u>New Jersey</u>	<u>Massachusetts</u>	<u>Pennsylvania</u>
Potassium hydroxide, 1310-58-3	X	X	X
EDTA, 60-00-4	X	X	X
Sodium hydroxide, 1310-73-2	X	X	X
Triethanolamine, 102-71-6	X	X	X
Proprietary	X	X	X
Proprietary	X	X	X

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Section 16: OTHER INFORMATION

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<b>Issue date:</b>	11-Nov-2013			
<b>Revision date:</b>	01-June-2015			
<b>Version number:</b>	New format			
<b>NFPA ratings:</b>	<u>Health Hazards</u>	<u>Flammability</u>	<u>Instability</u>	<u>Special Hazards</u>
	3	0	0	Cor
<b>HMIS ratings:</b>	<u>Health Hazards</u>	<u>Flammability</u>	<u>Physical Hazards</u>	<u>Personal Protection</u>
	3	0	0	x

**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in process, unless specified in the text.

End of Safety Data Sheet