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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name SteamWay Turbojuice Fire
Swisher number 1132
Reference number 1132CGH1-4
Distributor number
UN/ID No UN3266
Recommended use Alkaline Cleaner
Distributor Steam Way International, LLC
Company Emergency Phone Number 800-447-8326
Chemical Emergency Phone Number INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

DANGER!
Emergency Overview
Corrosive; causes burns to eyes and skin
Harmful by inhalation, in contact with skin and if swallowed
Appearance Clear, Thin Liquid Physical state Liquid. Odor Glycol ether
GHS hazard pictograms: Corrosion and Exclamation mark

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

Potential Health Effects
Acute toxicity
Eyes Corrosive - causes irreversible eye damage
Skin Contact causes severe skin irritation and possible burns May be absorbed through the skin in harmful amounts
Inhalation Irritating to respiratory system May cause central nervous system depression with nausea, headache, dizziness, and incoordination
Ingestion Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock.

<b>Chronic Effects</b>	Prolonged or repeated skin contact may cause dermatitis.
<b>Aggravated Medical Conditions</b>	Pre-existing eye, skin and respiratory disorders.
<b>Environmental hazard</b>	See Section 12 for additional Ecological Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	CAS-No	Weight %
2-Butoxyethanol	111-76-2	< 18%
Sodium hydroxide	1310-73-2	< 7%

### 4. FIRST AID MEASURES

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Immediately flush eyes with large amounts of water for 15 minutes or until irritation subsides. Call for prompt medical attention.
<b>Skin contact</b>	Remove contaminated clothing (including shoes) and wash before reuse. Flush with large amounts of water. Use soap if available. Seek medical attention.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration. Call for prompt medical attention.
<b>Ingestion</b>	Do not induce vomiting unless directed by a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.
<b>Notes to physician</b>	Treat symptomatically Probable mucosal damage may contraindicate the use of gastric lavage
<b>Protection of First-aiders</b>	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Contains flammable substances dissolved in water in low concentrations.
<b>Flash point</b>	> 200 °F > 93 °C
<b>Method</b>	TCC
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Unsuitable Extinguishing Media</b>	This product contain alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.
<b>Hazardous Combustion Products</b>	Ammonia Carbon monoxide Nitrogen oxides (NOx)
<b>Explosion Data</b>	

<b>Sensitivity to Mechanical Impact</b>	None.			
<b>Sensitivity to Static Discharge</b>	None.			
<b>Specific hazards arising from the chemical</b>	Corrosive or strongly alkaline liquid. Concentrate product solution in contact with aluminum releases hydrogen gas.			
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear			
<b>NFPA</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 0	<b>Stability</b> 1	<b>Physical and chemical hazards</b> COR
<b>HMIS</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal protection</b> -

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing Use personal protective equipment Ensure adequate ventilation
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas. Neutralization is normally necessary before waste water is discharged into water treatment plants.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so Contain spill. Neutralize with mild acid solution. Flush residue with large volumes of water
<b>Methods for cleaning up</b>	Mop up & flush neutralized material to sewer with plenty of water.
<b>Other information</b>	Common Weak Acids suitable for neutralizing caustic alkalis: acetic acid, citric acid, lemon juice, tartaric acid, vinegar.

## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Do not eat, drink or smoke when using this product Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water
<b>Technical measures/Storage conditions</b>	Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2		TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Engineering Measures** Ensure that eyewash stations and safety showers or an equivalent method of decontamination are close to the work location Ensure adequate ventilation, especially in confined areas

### **Personal Protective Equipment Institutional Environment**

<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Consumer Environments</b>	Care should be taken to avoid Eye contact.
<b>Skin and body protection</b>	Rubber gloves
<b>Respiratory protection</b>	Ensure adequate ventilation

**Hygiene measures** Practice good personal hygiene. Wash after handling.

**Personal Protective Equipment Industrial Environment**

**Eye/Face Protection** Splash-proof chemical goggles or face shield.  
**Skin and body protection** Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.  
**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.  
**Hygiene measures** Do not eat, drink or smoke when using this product Practice good personal hygiene. Wash after handling

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Glycol ether
<b>Appearance</b>	Clear Thin Liquid		
<b>Color</b>	purple		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Methods</u>
<b>pH</b>	> 13.9		
<b>Melting/freezing point</b>	NA	No data available	
<b>Freezing Point</b>		No data available	
<b>Boiling point/boiling range</b>	> 100 °C / 212 °F	Estimated	
<b>Flash Point</b>	> 93 °C > 200 °F	TCC	
<b>Evaporation rate</b>	<1		
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
upper flammability limit			
lower flammability limit			
<b>Explosion Limits</b>			
upper			
lower			
<b>Vapor pressure</b>	NA	No information available	
<b>Vapor density</b>	NIF	No information available	
<b>Specific Gravity</b>	1.056 ± 0.005		
<b>Water solubility</b>	completely soluble	Completely soluble.	

**9.2 Other information**

**VOC Content(%)** < 20%

**10. STABILITY AND REACTIVITY**

**Stability** Stable under recommended storage conditions.

**Incompatible products** Strong oxidizing agents, acids, aluminum and other soft metals.

**Conditions to Avoid** None known based on information supplied

**Hazardous Decomposition Products** Hydrogen gas in contact with some metals.

**Hazardous Polymerization** Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

<b>Product Information</b>	Harmful by inhalation, in contact with skin and if swallowed.
<b>Inhalation</b>	Inhalation may cause severe respiratory irritation and pulmonary edema.
<b>Eye contact</b>	Corrosive to the eyes and may cause severe damage including blindness
<b>Skin contact</b>	Contact causes severe skin irritation and possible burns
<b>Ingestion</b>	Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	140 mg/kg (Rat)	1350 mg/kg (Rabbit)	
2-Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h

**Chronic toxicity**

**Chronic toxicity** Prolonged or repeated skin contact may cause dermatitis.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Target Organ Effects** None known.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Large amounts will affect pH and harm aquatic organisms Neutralization is normally necessary before waste water is discharged into water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium hydroxide		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
2-Butoxyethanol		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna mg/L EC50

Chemical Name	log Pow
2-Butoxyethanol	0.81

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

**Contaminated packaging** Do not re-use empty containers

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Toxic Corrosive

## 14. TRANSPORT INFORMATION

**DOT** Regulated

**Proper shipping name** UN3266, Corrosive Liquid, Basic, Inorganic, n.o.s., (Contains Sodium Hydroxide), 8, PG III

**Hazard class** 8

**UN/ID No** UN3266

**Packing Group** II

**Emergency Response Guide Number** 154

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	TSCA
<b>DSL</b>	Complies
<b>NDSL</b>	Complies
<b>EINECS</b>	Complies
<b>ELINCS</b>	-
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**TSCA** - All components of this product are listed or are exempt or excluded from listing on the 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 Commercial Chemical Substances/EU 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

**AICS** - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

**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

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	Yes

**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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

**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)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	Carcinogen Status	Exposure Limits
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 360 mg/m <sup>3</sup>

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Chemical Name	NPRI
2-Butoxyethanol	X

**16. OTHER INFORMATION**

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<b>Prepared By</b>	Daley International 4100 West 76th Street Chicago, IL 60652	<b>Issuing date</b>	01-Dec-2012	<b>Revision Date</b>	01-Dec-2012
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**Revision Note** 1.

**Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

**Safety Data Sheet**