

# SAFETY DATA SHEET

## 1. Identification of the Substance/Mixture and of the Company/ Undertaking

Product Name: : Carbon Off

Product Code:

Company Name: Randall Industries, LLC  
4565 Hemlock Road  
Cherry Tree, PA 15724

Phone: 814-743-6630

Emergency 24 hour: 1-800-535-5053

Proper Shipping Name: Not Regulated

Identification No: Not Applicable

Hazard Class: Not Applicable

Generic Description: Aircraft Wash

## 2. Hazards Identification

### Emergency Overview

Appearance	liquid
Color	Light green
Odor	slight

### GHS Classification

Not a hazardous substance or mixture.

### GHS Label element

Not a hazardous substance or mixture.

### Potential Health Effects

#### Carcinogenicity:

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 3 Composition / Information on Ingredients

Ingredient(s):	CAS No:	Concentration [%]:
Sodium Metasilicate	6834-92-0	1.0 - 5.0
Proprietary Surfactant Blend	N/A	1.0 - 5.0
2-Butoxyethanol	111-76-2	1.0 - 5.0
Water	7732-18-5	>70.0
Coloring agent and fragrance	N/A	< 0.1
Sodium Hydroxide	1310-73-2	< 1.0

\*Exact percentages and other chemical information in some cases are deemed to be a Trade Secret.

### 4 First Aid Measures

General advice	Do not leave the victim unattended.
If inhaled :	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. Wash off immediately with plenty of water for at least 15 minutes.
In case of eye contact :	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.
If swallowed :	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### 5 Firefighting Measures

Suitable extinguishing media	Dry chemical Water spray jet Carbon dioxide (CO <sub>2</sub> ) Alcohol resistant foam
Unsuitable extinguishing media	High volume water jet
Specific hazards during firefighting	Do not allow run-off fire fighting to enter drain Water courses.
Hazardous combustion products	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Smoke
Specific extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up

## 7 Handling and Storage

Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	Keep away from oxidizing agents and strongly acid or alkaline materials.

## 8 Exposure Control and Personal Protection

### OCCUPATIONAL EXPOSURE LIMITS

Chemical identity	Type	Exposure Limit values		Source
2-BUTOXYETHANOL	TWA	20 ppm		US. ACGIH Threshold Limit Values (2011)
	REL	5 ppm	24 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	25 ppm	120 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000)(1989)
	PEL	50 ppm	240 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

#### Biological limit values

Chemical identity	Exposure Limit values	Source
2-BUTOXYETHANOL (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)

Chemical identity	Type	Exposure Limit values	Source
Sodium Hydroxide	TWA	2 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000)(1989) US. ACGIH Threshold Limit Values (2011)
	PEL	2 mg/m <sup>3</sup>	

#### Personal protective equipment

##### Respiratory protection

In the case of vapor formation  
use a respirator with an  
approved filter.

##### Hand protection Remarks

The suitability for a specific workplace should be discussed  
with the producers of the protective gloves.

##### Eye protection

Safety glasses  
Ensure that eyewash stations and safety showers are close to the  
workstation location.

##### Skin and body protection

Impervious clothing  
Choose body protection according to the amount and concentration of  
the dangerous substance at the work place.

##### Hygiene measures

When using do not eat, drink or smoke.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## 9 Physical and Chemical Properties

Appearance	liquid
Color	Light green
Odor	slight
Odor Threshold	No data available
pH	11.5

Melting point/freezing point	No data available
Boiling point	100 °C
Flash point	does not flash
Evaporation rate	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	not determined
Relative vapour density	No data available
Density	1.01g/cm <sup>3</sup>

Solubility(ies)	
Water solubility	soluble
Solubility in other solvents	not determined
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	not determined
Thermal decomposition	No data available

## 10 Stability and Reactivity

<b>Reactivity:</b>	Stable.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	No decomposition if stored and applied as directed.
<b>Conditions to Avoid:</b>	No data available
<b>Incompatible Materials:</b>	Oxidizing agents
<b>Hazardous Decomposition Products:</b>	Carbon oxides.

## 11 Toxicological Information

<b>Acute toxicity</b>	
<b>Product:</b> Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive toxicity

No data available

## 12 Ecological Information

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

<b>Product:</b> Partition coefficient: n-octanol/water	Remarks: No data available
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### Mobility in soil

No data available

**Other adverse effects**

No data available

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
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Remarks	This product neither contains, nor was manufactured I or Class II ODS as defined by the U.S. Clean Air Act (40 CFR 82, Subpt. A, App.A + B).
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Additional ecological information	No data available
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**13 Disposal Information****Disposal methods**

Waste from residues	Dispose of in accordance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product. Do not re-use empty containers

**14 Transport Information**

Transportation Regulation: 49 CFR (USA):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):  
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

## 15 Regulatory Information

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
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#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**                      No SARA Hazards

**SARA 302**    No chemicals in this material are subject to the reporting Requirements of SARA Title III, Section 302

**SARA 313**    This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**                                      This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

<b>TSCA</b>	<b>On TSCA Inventory</b>
<b>DSL</b>	<b>This Product contains one or several components that are not on the Canadian DSL nor NDSL.</b>

Inventory Acronym and Validity Area Legend:

DSL ( Canada ), TSCA ( USA )

## 16 Other Information

Further information

HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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