

# SAFETY DATA SHEET

### **POWER CLEANER 100**

### **Section 1. Identification**

**GHS** product identifier : POWER CLEANER 100

**Product code** : 53-G 253 (500 mL), 53-G 256 (5 L), 53-G257 (20 L), 53-G 258 (208 L)

SDS no. : L-23E **Product type** : Liquid.

#### **Identified uses**

High-performance, VOC free rust remover/acidic cleaner.

Manufacturer : Walter Surface Technologies Inc.

Bio-Circle - A Division of Walter Surface Technologies Inc.

810 Day Hill Road Windsor, CT 06095 **United States** 

General Information: 18665925837

info.us@walter.com www.walter.com

**Emergency telephone** number (with hours of

operation)

: INFOTRAC® 1-800-535-5053, Outside U.S.A. call collect: 1-352-323-3500

24 hours/day, 7 days/week.

### Section 2. Hazards identification

**OSHA/HCS** status

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

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

AQUATIC HAZARD (ACUTE) - Category 3

**GHS** label elements

**Hazard pictograms** 



Signal word

**Hazard statements** 

: H314 - Causes severe skin burns and eye damage.

H402 - Harmful to aquatic life.

**Precautionary statements** 

Prevention

: P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P273 - Avoid release to the environment. P264 - Wash hands thoroughly after handling.



### Section 2. Hazards identification

#### Response

: P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise classified

: None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product code : 53-G 253 (500 mL), 53-G 256 (5 L), 53-G257 (20 L), 53-G 258 (208 L)

### **CAS** number/other identifiers

**CAS number** : Not applicable.

Ingredient name	%	CAS number
Phosphoric acid 2-Butoxyethanol	5 - 10 1 - 5	7664-38-2 111-76-2
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts Alcohols, C12-14, ethoxylated	1 - 5 0.1 - 1	68411-30-3 68439-50-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.

**Skin contact** 

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.



### Section 4. First aid measures

### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

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

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

Skin contact : Causes severe burns.

Ingestion : May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.





### Section 5. Fire-fighting measures

# Specific hazards arising from the chemical

Hazardous thermal decomposition products

- : This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- : Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



# Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

# Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Phosphoric acid  2-Butoxyethanol	ACGIH TLV (United States, 4/2014).  STEL: 3 mg/m³ 15 minutes.  TWA: 1 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  STEL: 3 mg/m³ 15 minutes.  TWA: 1 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 1 mg/m³ 8 hours.  ACGIH TLV (United States, 4/2014).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2013). Absorbed through skin.  TWA: 24 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013). Absorbed through skin.  TWA: 240 mg/m³ 8 hours.  TWA: 25 ppm 8 hours.  TWA: 250 ppm 8 hours.  TWA: 50 ppm 8 hours.

# Appropriate engineering controls

: No personal respiratory protective equipment normally required. Avoid breathing dust/fume/gas/mist/vapors/spray. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### **Individual protection measures**





### Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommended: Nitrile gloves 0.4 mm thick, permeation time 480 minutes.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a NIOSH/MSHA approved respirator if there is a risk of exposure at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Yellow.

Odor : Odorless.

Odor threshold : Not available.

**pH** : <1

Melting point: 0°C (32°F)Boiling point: 98°C (208.4°F)Flash point: Not available.Evaporation rate: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

**Density** : 1.15 g/ml @ 20°C (68°F)

**Solubility** : Soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.





### Section 9. Physical and chemical properties

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.

VOC content (g/L) : 0

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials, metals and

alkalis.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Phosphoric acid	LD50 Oral	Rat	1.25 g/kg	-
2-Butoxyethanol	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	LD50 Oral	Rat	404 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
•	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Skin - Moderate irritant	Rabbit	-	0.5 mL	-

### **Sensitization**

There is no data available.

### **Carcinogenicity**

### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2-Butoxyethanol	-	3	-	A3	-	-

### Specific target organ toxicity (single exposure)

There is no data available.





### Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

There is no data available.

### **Aspiration hazard**

There is no data available.

Information on the likely

routes of exposure

: Dermal contact. Ingestion.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

Skin contact : Causes severe burns.

**Ingestion**: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects

: No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** 

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**





### **Section 11. Toxicological information**

### **Acute toxicity estimates**

Route	ATE value
Oral Dermal Inhalation (vapors)	7591 mg/kg 8846.1 mg/kg 442.3 mg/L

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Phosphoric acid	Acute LC50 138 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 mg/L Marine water	Crustaceans - Chaetogammarus marinus -	48 hours
	Acute LC50 1250000 μg/L Marine water	Young Fish - Menidia beryllina	96 hours
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Acute LC50 7300 μg/L	Fish - Oryzias latipes	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
POWER CLEANER 100	-	>85%; 28 to 100 day(s)	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol Benzenesulfonic acid, C10-13-alkyl	0.81 3.32	-	low low
derivs., sodium salts Alcohols, C12-14, ethoxylated	-	237	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.





# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	UN3264	UN3264	UN3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)
Transport hazard class(es)	8 CORROGNE	8	8
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG**: 154

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Protect from freezing. Freezing will damage product and render it unusable.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

### **Section 15. Regulatory information**

**U.S. Federal regulations** 

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 311: Phosphoric acid

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602 **Class I Substances** 

: Not listed

Clean Air Act Section 602

: Not listed

**Class II Substances DEA List I Chemicals** 

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** 

(Essential Chemicals)

: Not listed

**SARA 302/304** 

Composition/information on ingredients





# Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

### Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Phosphoric acid 2-Butoxyethanol Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts Alcohols, C12-14, ethoxylated	5 - 10 1 - 5 1 - 5 0.1 - 1	No. Yes. No.	No. No. No.	No. No. No.	Yes. Yes. Yes.	No. No. No.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	2-Butoxyethanol	111-76-2	1 - 5
Supplier notification	2-Butoxyethanol	111-76-2	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

**Massachusetts** : The following components are listed: Phosphoric acid; 2-Butoxyethanol

New York : The following components are listed: Phosphoric acid

New Jersey : The following components are listed: Phosphoric acid; 2-Butoxyethanol : The following components are listed: Phosphoric acid; 2-Butoxyethanol

California Prop. 65

No products were found.

**International lists** 

**National inventory** 

Canada : One or more components are not listed.

### **Section 16. Other information**

#### **History**

Date of issue mm/dd/yyyy : 11/30/2015

Date of previous issue : 08/01/2015

Version : 1.2 Revised Section(s) : 2, 8, 16.

Prepared by : KMK Regulatory Services Inc.



### Section 16. Other information

### **Key to abbreviations**

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

