

# SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 14-Jan-2015

Revision Number 1

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) 78.1001

Product Name Bowstar Compac Solid Dish Wash Detergent

Contains

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use No information available

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### For further information, please contact

E-mail Address mail@thewerco.com

### 1.4. Emergency telephone number

Emergency Telephone Number No information available.

Europe	112
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## Section 2. Hazards identification

### 2.1. - Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2

#### Physical Hazards

None

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

R-code(s) C;R35

For the full text of the R-phrases mentioned in this Section, see Section 16

### 2.2. Label Elements



Signal Word

Danger

**Hazard Statements**

H302 - Harmful if swallowed  
 H312 - Harmful in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H351 - Suspected of causing cancer  
 EUH210 - Safety data sheet available on request

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a POISON CENTER or doctor/ physician

**Precautionary Statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P312 - Call a POISON CENTER or doctor/ physician if you feel unwell  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 P363 - Wash contaminated clothing before reuse  
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P201 - Obtain special instructions before use  
 P310 - Immediately call a POISON CENTER or doctor/ physician  
 P202 - Do not handle until all safety precautions have been read and understood  
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention  
 P405 - Store locked up  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell  
 P330 - Rinse mouth  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other information**

No information available.

## Section 3. Composition/information on ingredients

**3.1. Substances**

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Trade Secret	Listed	-	> 30	C; R35	Skin Corr. 1A (H314)	No data available
Nitrilotriacetic acid, trisodium salt monohydrate	-	18662-53-8	5-15	Xn; R22 Xi; R36 Carc. Cat.3; R40	Acute Tox. 4 (H302) Carc. 2 (H351) Eye Irrit. 2 (H319)	No data available
Sodium carbonate	Present	497-19-8	1-5	Xi; R36	Eye Irrit. 2 (H319)	No data available

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## Section 4. First aid measures

### 4.1. Description of first-aid measures

<b>General Advice</b>	Immediate medical attention is required. Immediately call a POISON CENTER or doctor/physician.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or Poison Control Center immediately.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Poison Control Center immediately
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Call a physician or Poison Control Center immediately.

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

**Most Important Symptoms/Effects** Burn. Serious eye irritation or damage.

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

<b>Notes to Physician</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
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## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

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

#### **Extinguishing media which must not be used for safety reasons**

No information available.

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

#### **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

### 5.3. Advice for firefighters

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

### 6.2. Environmental precautions

Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

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

Stop leak if you can do it without risk

Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water.

### 6.4. Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

### 7.1. Precautions for Safe Handling

#### Handling

Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not take internally. Wash thoroughly after handling.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Keep out of the reach of children.

### 7.3. Specific end use(s)

#### Exposure Scenario

No information available.

#### Other Guidelines

No information available.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Trade Secret		STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Trade Secret ( > 30 )		Ceiling: 2 mg/m <sup>3</sup>		STEL: 2 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Trade Secret	STEL 4 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>

**Derived No Effect Level** No information available  
**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

<b>Engineering Measures</b>	Showers, eyewash stations, and ventilation systems.
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Chemical splash goggles. Face-shield.
<b>Skin and Body Protection</b>	Rubber gloves
<b>Hand Protection</b>	Protective gloves.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental Exposure Controls** No information available.

## Section 9. Physical and chemical properties

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

<b>Physical State</b>	No information available.	<b>Appearance</b>	No information available
<b>Odor</b>	No information available.		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	NA	None Known
Melting Point/Range	NA	None known
Boiling Point/Boiling Range	NA	None known
Flash Point	NA	None known
Evaporation rate	NA	None known .
Flammability (solid, gas)	No data available	None known
Vapor Pressure	NA	None known
Vapor Density	NA	None known
Relative Density	NA.	None known
Water Solubility	COMPLETE	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	NA	None known
Decomposition Temperature	No data available	None known
Viscosity	NA	None known
<b>Flammable Properties</b>	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.	
<b>Explosive Properties</b>	NA	
<b>Oxidizing Properties</b>	No information available	

**9.2. Other information**

<b>VOC Content (%)</b>	No information available
<b>Flammability Limits in Air</b>	No information available.

## Section 10. Stability and reactivity

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Incompatible products. Extreme heat.

**10.5. Incompatible materials**

Acids. Strong oxidizing agents. Aluminum. Soft metals. Do not mix with anything but water

#### **10.6. Hazardous decomposition products**

None known based on information supplied.

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

#### **11.1.**

##### **Acute Toxicity**

###### **Product Information**

###### **Inhalation**

None under normal use condtions

###### **Eye Contact**

Causes serious eye damage.

###### **Skin Contact**

Harmful in contact with skin. Causes severe skin burns.

###### **Ingestion**

Harmful if swallowed.

##### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trade Secret	-	1350 mg/kg ( Rabbit )	-
Nitrilotriacetic acid, trisodium salt monohydrate	= 920 mg/kg ( Rat )		> 5 mg/L ( Rat ) 4 h
Sodium carbonate	= 4090 mg/kg ( Rat )		

##### **Sensitization**

No information available.

##### **Mutagenic Effects**

No information available.

##### **Carcinogenic Effects**

No information available.

##### **Reproductive Toxicity**

No information available.

##### **Developmental Toxicity**

No information available.

##### **STOT - single exposure**

No information available.

##### **STOT - repeated exposure**

No information available.

###### **Target Organ Effects**

Eyes. Respiratory system. Skin.

##### **Aspiration Hazard**

No information available.

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

#### **12.1. Toxicity**

##### **Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Trade Secret		LC50 96 h: = 45.4 mg/L static (Oncorhynchus mykiss)		

Nitritotriacetic acid, trisodium salt monohydrate	EC50 96 h: 560 - 1000 mg/L (Chlorella vulgaris)	LC50 96 h: 93 - 170 mg/L flow-through (Pimephales promelas) LC50 96 h: 175 - 225 mg/L static (Lepomis macrochirus) LC50 96 h: = 252 mg/L (Lepomis macrochirus) LC50 96 h: = 470 mg/L static (Pimephales promelas) LC50 96 h: 560 - 1000 mg/L (Oryzias latipes) LC50 96 h: 560 - 1000 mg/L semi-static (Oryzias latipes) LC50 96 h: 72 - 133 mg/L static (Oncorhynchus mykiss) LC50 96 h: 560 - 1000 mg/L semi-static (Poecilia reticulata) LC50 96 h: 560 - 1000 mg/L (Poecilia reticulata) LC50 96 h: = 114 mg/L (Pimephales promelas)		LC50 48 h: 560 - 1000 mg/L (Daphnia magna)
Sodium carbonate	EC50 120 h: = 242 mg/L (Nitzschia)	LC50 96 h: = 300 mg/L static (Lepomis macrochirus) LC50 96 h: 310 - 1220 mg/L static (Pimephales promelas)		EC50 48 h: = 265 mg/L (Daphnia magna)

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential.**

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

**12.4. Mobility in soil**

Adsorbs on soil.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

**13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Other Information**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## Section 14. Transport information

**IMDG/IMO**

14.1. UN-Number	UN1759
14.2. Proper Shipping Name	Corrosive solid, n.o.s.
14.3. Hazard Class	8
14.4. Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
EmS No.	F-A, S-B
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

**RID**

14.1. UN-Number	UN1759
14.2. Proper Shipping Name	Corrosive solid, n.o.s.
14.3. Hazard Class	8
14.4. Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	C10

**ADR**

14.1. UN-Number	UN1759
14.2. Proper Shipping Name	Corrosive solid, n.o.s.
14.3. Hazard Class	8
ADR/RID-Labels	8
14.4. Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II, (E)
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	C10
Tunnel Restriction Code	(E)

**ICAO**

14.1. UN-Number	UN1759
14.2. Proper shipping name	Corrosive solid, n.o.s.
14.3. Hazard Class	8
14.4. Packing Group	II
Description	UN1759, Corrosive solid, n.o.s., 8, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.

**IATA**

14.1. UN-Number	UN1759
14.2. Proper Shipping Name	Corrosive solid, n.o.s.
14.3. Hazard Class	8
14.4. Packing Group	II
Description	UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
ERG Code	8L

<b>Section 15. Regulatory information</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**



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<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>PICCS</b>	Not determined
<b>ENCS</b>	Not determined
<b>IECSC</b>	Not determined
<b>AICS</b>	Not determined
<b>KECL</b>	Not determined

**Legend****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**AICS** - Australian Inventory of Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**15.2. Chemical Safety Assessment**

No information available

**Section 16. Other information****Full text of R-phrases referred to under Sections 2 and 3**

R22 - Harmful if swallowed

R35 - Causes severe burns

R36 - Irritating to eyes

R40 - Limited evidence of a carcinogenic effect

**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Issuing Date** 07-Aug-2013**Revision Date** 14-Jan-2015**Revision Note** New regional format.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

**General Disclaimer**

The information provided on this SDS 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.

**End of Safety Data Sheet**