



# SAFETY DATA SHEET

Revision date: 6/26/2018

Supersedes: Not applicable

Version: 1

## 1. Identification

### Product Identifier

Product name: Zaal Low Foam Vacuum Toilet Bowl Cleaner & Descaler

### Intended use of the product

Use of the substance/mixture: Household cleaning – consumer product

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

Gemini Packaging Ltd., 150-12071 Jacobson Way, Richmond, BC, Canada V6W 1L5

1-604-278-3455

### Emergency telephone number

613-996-6666 (Canutec 24 hours)

## 2. Hazard Identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### GHS label elements including precautionary statements

#### Emergency Overview

Signal word

Warning

### **Hazard statements**

Causes skin irritation

Causes eye irritation

Appearance Clear, blue

Physical State Gel

Odor Odorless

### Precautionary statements – Prevention

Wash hands and any exposed skin thoroughly after handling.

Wear eye protection/face protection such as safety glasses.

### Precautionary statements – Response

#### **Eyes**

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists. Get medical advice/attention.

#### **Skin**

If skin irritation occurs, get medical advice/attention.

### Precautionary statement – Storage

None.

### Precautionary statement – Disposal

Contains moderately strong inorganic acid.

### Hazards not otherwise classified (HNOC)

The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.

### Unknown toxicity

None known.

### Other information

None Known.

### Interaction with other chemicals

Reacts with other household chemicals such as chlorine bleach, drain opener and oven cleaner products.

### 3. Composition/Information on ingredients

Chemical Name	CAS No.	Wt %	GHS-US classification
Water	7732-18-5	85- 95	
Sulfamic acid	5329-14-6	5.0 – 10.0	

### 4. First Aid Measures

#### First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Inhalation	If symptoms of exposure develop, remove to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing. Wash all affected and exposed areas with soap and water. If irritation or redness persists, seek medical attention.
Eye Contact	Expose eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. Do not rub affected area. If irritation, pain, swelling or tearing persistent, seek medical attention.
Ingestion	If swallowed, get medical attention by call in Poison Control Center or hospital immediately. Have person sip a glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor.
Protection of first-aiders	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

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

Most important Symptoms Stinging and irritation of eyes.  
& Effects

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

Notes to Physician Treat symptomatically.

## **5. Firefighting Measures**

### Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Alcohol foam, carbon dioxide, dry chemicals and water fog.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

Container may melt and leak in heat of fire.

It is an aqueous solution and does not sustain combustion. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

### Explosive Data

Sensitivity to Mechanical Impact:   None.

Sensitivity to Static Discharge:       None.

### Protective Equipment and Precautions for Firefighters

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

## **6. Accidental Release Measures**

### Personal Precautions, Protective Equipment and Emergency Procedure

Personal Precautions           Remove all sources of ignition. Avoid contact with eyes, skin and clothing.  
Use personal protective equipment as required.

Other information               Refer to protective measures listed in Sections 7 and 8

### Environmental Precautions

Environmental Precautions See Section 12 for ecological information

Methods and Material for Containment and Cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. Dike large spills.

**7. Handling & Storage**

Precautions for Safe Handling

Handling KEEP OUT OF REACH OF CHILDREN AND PETS. Use only as directed. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Keep away from heat and sources of ignition.

Conditions for Safe Storage, Including any Incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.

Incompatible Products Stable under normal conditions.

**8. Exposure Controls / Personal Protection**

Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH

*ACGIH TLV. American Conference of Governmental Industrial Hygienists – Threshold Limit Value.*

*OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits*

*NIOSH IDLH: National Institute of Occupational Safety and Health - Immediately Dangerous to Life or Health.*

### Appropriate Engineering Controls

Engineering Measures            Showers, eyewash stations, ventilation systems

### Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection:            If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

Skin and Body Protection        Wear protective gloves and protective clothing.

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 Measure                 Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use only with adequate ventilation.

## 9. Physical & Chemical Properties

### Physical and Chemical Properties

<b>Physical States</b>	Liquid		
<b>Appearance</b>	Clear	<b>Odor</b>	Typical
<b>Color</b>	Blue	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/Methods</u>
<b>pH</b>	< 1.0	None known
<b>Melting/freezing point</b>	Non data available	None known
<b>Boiling point/boiling range</b>	Non data available	None known
<b>Flash point</b>	100°C	ASTM D56
<b>Evaporation rate</b>	Non data available	None known
<b>Flammability (solid, gas)</b>	Non data available	None known
<b>Flammability limits in Air</b>		
<b>Upper flammability limit</b>	Non data available	None known
<b>Lower flammability limit</b>	Non data available	None known

<b>Vapor pressure</b>	Non data available	None known
<b>Vapor density</b>	Non data available	None known
<b>Specific Gravity</b>	1.007	None known
<b>Water solubility</b>	soluble in water	None known
<b>Solubility in other solvents</b>	Non data available	None known
<b>Partition coefficient: n-octanol/water</b>	Non data available	None known
<b>Autoignition temperature</b>	Non data available	None known
<b>Decomposition temperature</b>	Non data available	None known
<b>Kinematic viscosity</b>	Non data available	None known
<b>Dynamic viscosity</b>	Non data available	None known
<b>Explosive properties</b>	Not explosive	None known
<b>Oxidizing properties</b>	Non data available	None known
<b>Other information</b>		
<b>Softening point</b>	Non data available	None known
<b>VOC content (%)</b>	<b>0</b>	None known
<b>Particle size</b>	Non data available	None known
<b>Particle size distribution</b>	Non data available	None known

## 10. Stability & Reactivity

### Reactivity

The product is stable.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reaction

None under normal processing.

### Conditions to Avoid

None known based on information supplied.

### Incompatible Materials

Alkaline products.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. Toxicological Information

### Information on likely routes of exposure

Product information

Inhalation	Exposure to vapor or mist may irritate respiratory tract.
Eye Contact	May cause eye irritation.
Ingestion	Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea, vomiting and diarrhea.

### **Component Information**

<b>Chemical Name</b>	<b>LD<sub>50</sub> Oral</b>	<b>LD<sub>50</sub> Dermal</b>	<b>LC<sub>50</sub> Inhalation</b>
Sulfamic acid 5329-14-6	3160 mg/kg (rat)	-	-

### Information on toxicological effects

**Symptoms**                      May cause redness and tearing of the eyes.

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

**Sensitization**                      No information available.

**Mutagenic effects**                      No information available.

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



Chemical Name	ACGIH	IARC	NTP	OSHA
-	-	-	-	-

*IARC (International Agency for Research on Cancer)*

*Group 3 – Not Classifiable as to Carcinogenicity in Humans)*

Reproductive Toxicity

STOT – single exposure                      No information available.

STOT – repeated exposure                      No information available.

Chronic Toxicity                                  No information available.

Target Organ Effects                              No information available.

Aspiration hazard                                No information available.

Numerical measures of toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document    Not applicable

<b>12. Ecological Information</b>
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Ecotoxicity:                                      No information available.

Persistence and Degradability                      No information available.

Bioaccumulation                                      No information available.

Other adverse effects                                      No information available.

<b>13. Disposal Considerations</b>
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Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state and local regulations.

## 14. Transportation Information

### Land transport

#### US DOT & Canada TDG surface transportation

UN-Number	2967
Hazard Class	8
Packaging Group	III
Description	Not regulated (small means of containment)

### Sea Transport

#### IMDG / IMO

UN-Number	2967
Packaging group	III
Proper shipping names	Corrosive Liquid (sulfamic acid)
Class	8
EMs No.	None
Marine Pollutant	No

### Air transport

#### ICAO / IATA

UN-Number	2967
Proper shipping name	Corrosive Liquid (sulfamic acid)
Hazard Class	8
Packaging Group	III

## 15. Regulatory Information

### Chemical Inventories

TSCA All components of this product are either on the US TSCA Inventory or otherwise exempt from listing.

DSL/NDSL All components are on the DSO or NDSL.

*TSCA – United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List*

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

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

<b>Chemical Name</b>	<b>CWA – Reportable Quantities</b>	<b>CWA – Toxic Pollutants</b>	<b>CWA – Priority Pollutants</b>	<b>CWA – Hazardous Substances</b>

**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>Chemical Name</b>	<b>Hazardous Substances RQs</b>	<b>Extremely Hazardous Substances RQs</b>	<b>RQ</b>

### **EPA Statement**

Not applicable.

### US State Regulations

California Proposition 65

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois

### International Regulations

#### **Canada**

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

**WHMIS Hazard Class      Not applicable**

<b>16. Other Information</b>
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### NFPA

Health Hazard    0    Flammability    0    Instability    1    Physical & Chemical Hazard    2

### HMIS

Health Hazard    0    Flammability    0    Physical Hazards    2    Personal Protection    B

Prepared by                      Gemini Packaging Limited  
   150 – 12071 Jacobson Way  
   Richmond, BC  
   Canada V6W 1L5

1-800-665-0991

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Revision Note           New

General 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 the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet