

THIS APPLIES TO UNDILUTED MATERIAL ONLY!



# Safety Data Sheet

## SALT DESTROYER<sub>232</sub>

SDS Revision Date: 01/25/2021

### 1. Product and Company Name

#### 1.1. Product identifier

**Product Identity**

SALT DESTROYER<sub>232</sub>

**Alternate Names**

NA

ID NO: 232.0121

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

**Intended use**

See Product Label

**Application Method**

See Technical Data Sheet.

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

**Company Name**

Hydrus Detergents

2621 7<sup>th</sup> Avenue South

Estherville, IA. 51334

#### 1.4 Medical and Emergency Spill Information

**FOR EMERGENCY SPILL, LEAK, FIRE, EXPOSURE CALL 24/7**

CHEMTREC: (800) 424-9300

Outside US: (703)-527-3887

**Customer Service: Hydrus Detergents**

PHONE: (712) 765-1060

FAX: (712) 765-1062

### 2. Hazard identification of the product

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

Acute Tox. 4;H302

Harmful if swallowed.

Skin Corr. 1A;H314

Causes severe skin burns and eye damage.

Eye Dam. 1;H318

Causes serious eye damage.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

**[Prevention]:**

P261 Avoid breathing fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P301+330+331 IF SWALLOWED: Call a physician immediately. Rinse out mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Shower off immediately. Massage in a 2.5% calcium gluconate gel until pain is relieved. Seek immediate medical attention.  
 P304+312 IF INHALED: Call doctor / physician if you feel unwell.  
 P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P308+313 IF exposed or concerned: Seek immediate medical attention.  
 P310 Immediately call doctor / physician.  
 P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P363 Wash contaminated clothing before reuse. Discard any that cannot be de-contaminated.  
 P391 Collect spillage.

**[Storage]:**

P403+233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
Sulfamic Acid CAS Number: 0005329-14-6	75-100
Surfactant Blend CAS Number: Proprietary	1.0 - 10

**4. First aid measures**

**4.1. Description of first aid measures**

**General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  
**NOTES TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Inhalation** If coughing or sneezing occurs move to fresh air...

**Eyes** Allow streaming water to flow over the face while blinking the eyes for at least 15 minutes, making sure you have complete irrigation of the eye and lids. Seek medical attention immediately.

**Skin** Immediately flush skin with plenty of water for at least 15-minutes. Contact physician if irritation persists.

**Ingestion** If swallowed, Do NOT induce vomiting, Give water of Milk of Magnesia. If vomiting occurs keep airways clear. Seek immediate medical attention.

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

**Overview** ACUTE: May cause eye or skin burns. Avoid dust accumulation.  
 POTENTIAL SIDE AFFECTS:  
 EYES: Tissue destruction and permanent eye damage may occur if not treated immediately.  
 SKIN: Can be a severe irritant. May be corrosive and cause severe burns.  
 INGESTION: Corrosive to mucous membranes of the mouth, esophagus, stomach and throat.  
 INHALATION: Coughing or sneezing may occur due to exposure to airborne dust. Lung damage may occur due to overexposure.  
 SIGNS AND SYMPTOMS OF OVEREXPOSURE  
 EYES: Irritation and burns may occur.  
 SKIN: Severe skin irritation.  
 INGESTION: Mouth/stomach irritation.  
 INHALATION: NA

**Eyes** May cause serious eye irritation.

**5. Fire-fighting measures**

**5.1. Extinguishing media:** Water, Water, carbon dioxide, foam, dry chemical.

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

Hazardous decomposition: Heat, Sulfur Dioxide, Sulfur Trioxide, Ammonia

**5.3. Advice for fire-fighters:** Respiratory and eye protection are required for firefighting personnel. Full protective equipment and self-contained breathing apparatus should be used for all indoor fires and any significant outdoor fires.

**ERG Guide No.** 154

## 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures:** Put on appropriate personal protective equipment (Section 8)

**6.2. Environmental precautions:**

WATER SPILL: Use appropriate containment to avoid runoff.

LAND SPILL: Use appropriate containment to avoid runoff.

RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the US, contact the U.S. Coast Guard National Response Center toll free at 800-424-8802.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up:**

SMALL SPILL: Sweep up spilled material and reuse. Small residue can be flushed to sewer with water.

LARGE SPILL: Sweep up spilled material and reuse.

## 7. Handling and storage

**7.1. Precautions for safe handling**

Handle in a well ventilated area. Handle and use in a manner consistent with good industrial and/or manufacturing techniques and practices.

See section 2 for further details. - [Prevention]:

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

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Chlorine, Hypochlorous acid, sulfides or cyanide.

Store in a cool dry area. Keep container closed when not in use.

**7.3. Specific end use(s)**

Industrial de-scaler.

## 8. Exposure controls and personal protection

**8.1. Control parameters**

Carcinogen Data: No suspected or known carcinogens.

**8.2. Exposure controls**

**Respiratory**

General room ventilation.

**Eyes**

Safety glasses or goggles.

**Skin**

Chemical resistant clothing such as coveralls/apron boots should be worn. Acid resistant gloves.

**Engineering Controls**

Provide adequate ventilation

**Other Work Practices**

Facilities storing or using the material should be equipped with an eyewash facility and a safety shower. Good personal hygiene practices should always be followed.

REMARKS: This product contains hazardous ingredients per OSHA 29 CFR 1910.1200. No PEL's, TLV's, or OEL's for this product or its ingredients are listed in the current issue of ACGIH's Guide to Occupational Exposure values nor have they been determined by the manufacturer. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

**Appearance**

White Powder

**Odor**

None

**Odor threshold**

Not Measured

**Ph**

5% Solution = 1

**Melting point / freezing point**

Approx. 205 C.

**Initial boiling point and boiling range**

NA

**Flash Point**

Not Measured

**Evaporation rate (Ether = 1)**

Not Measured

**Flammability (solid, gas)**

Not Applicable

**Upper/lower flammability or explosive limits**

**Lower Explosive Limit:** Not Measured

**Upper Explosive Limit:** Not Measured

**Vapor pressure (Pa)**

NA

**Vapor Density**

NA

**Specific Gravity**

2

**Solubility in Water**

Not Measured

**Partition coefficient n-octanol/water (Log Kow)**

Not Measured

Auto-ignition temperature Not Measured  
 Decomposition temperature Not Measured  
 Viscosity (cSt) Not Measured

9.2. Other information: No other relevant information.

### 10. Stability and reactivity

- 10.1. Reactivity: Hazardous Polymerization will not occur.
- 10.2. Chemical stability: Stable under normal circumstances.
- 10.3. Possibility of hazardous reactions: Nod data available
- 10.4. Conditions to avoid: NA
- 10.5. Incompatible materials: Chlorine, hypochlorous acid, sulfides, cyanide, alkali
- 10.6. Hazardous decomposition products: Heat, Sulfur Dioxide, Sulfur Trioxide, Ammonia.

### 11. Toxicological information

#### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Sulfamic Acid (5329-14-6)	3,160.00 Rat- Category: 5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation
Serious eye damage/irritation	2	May cause serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	----	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

### 12. Ecological information

#### 12.1. Toxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sulfamic Acid – (5329-14-6)	14.20, Pimephales promelas	Not Available	Not Available

- 12.2. Persistence and degradability: There is no data available on the preparation itself.
- 12.3. Bioaccumulative potential: Not Measured
- 12.4. Mobility in soil: No data available
- 12.5. Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals
- 12.6. Other adverse effects: No data available.

### 13. Disposal considerations

13.1. Waste treatment methods: Observe all federal, state and local regulations when disposing of this substance.

### 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1759	UN1759	UN1759

<b>14.2. UN proper shipping name</b>	UN1759, Corrosive Solids, n.o.s. (Sulfamic Acid) 8, III	UN1759, Corrosive Solids, n.o.s., (Sulfamic Acid) 8, III	Corrosive Solids, n.o.s., (Sulfamic Acid)
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> 8 <b>DOT Label:</b> 8, 6.1	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> 6.1	<b>Not Legal</b>
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>	No further information		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not Applicable.		

### 15. Regulatory information

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.		
<b>Toxic Substance Control Act (TSCA)</b>	All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.		
<b>WHMIS Classification</b>	D2B E		
<b>US EPA Tier II Hazards</b>	<b>Fire:</b> No	<b>Sudden Release of Pressure:</b> No	<b>Reactive:</b> No
	<b>Immediate (Acute):</b> Yes	<b>Delayed (Chronic):</b> No	
<b>EPCRA 311/312 Chemicals and RQs (lbs.):</b> (No Product Ingredients Listed)			
<b>EPCRA 302 Extremely Hazardous :</b> (No Product Ingredients Listed)			
<b>EPCRA 313 Toxic Chemicals:</b> (No Product Ingredients Listed)			
<b>Proposition 65 - Carcinogens (&gt;0.0%):</b> (No Product Ingredients Listed)			
<b>Proposition 65 - Developmental Toxins (&gt;0.0%):</b> (No Product Ingredients Listed)			
<b>Proposition 65 - Male Repro Toxins (&gt;0.0%):</b> (No Product Ingredients Listed)			
<b>N.J. RTK Substances (&gt;1%):</b> Sulfamic Acid			
<b>Penn RTK Substances (&gt;1%):</b> (No Product ingredients Listed)			

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

**End of Document**