

## Result Shield D

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Result Shield D
<b>Other Means of Identification</b>	6245
<b>Other Identification</b>	UN3266
<b>Recommended Use</b>	Dishwasher Detergent.
<b>Restrictions on Use</b>	No information available.
<b>Manufacturer/Supplier Identifier</b>	Sunburst Chemicals, Inc., 220 W. 86th St., Bloomington, MN, 55420, 952-884-3144
<b>Emergency Phone No.</b>	Emergency Telephone Number, 1-866-303-6943
<b>SDS No.</b>	0004

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Acute toxicity (Dermal) - Category 4; Skin corrosion - Category 1A; Serious eye damage - Category 1

#### Label Elements



Signal Word:  
Danger

#### Hazard Statement(s):

Harmful in contact with skin.

Causes severe skin burns and eye damage.

#### Precautionary Statement(s):

##### Prevention:

Wear protective gloves, protective clothing, eye protection, face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands and skin thoroughly after handling.

#### General Advice

IF exposed or concerned: Get medical attention/advice

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Product Identifier: Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision: November 15, 2019

Page 01 of 08

#### Eyes

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 CENTRE or doctor.

#### Skin

IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.  
Call a POISON CENTRE or doctor if you feel unwell.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Storage:

Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.

#### Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

Not applicable.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
water	7732-18-5	20-45		
Potassium hydroxide	1310-58-3	10-30		
Sodium Silicate	1344-09-8	10-30		
Tetrapotassium Pyrophosphate	7320-34-5	5-10		
2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt	66019-18-9	2-8		

#### Notes

##### PRODUCT AT USE DILUTION

Contains ingredients listed above at weight % less than 0.5%

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. Seek immediate medical attention/advice.

Product Identifier: Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision: November 15, 2019

### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek immediate medical attention/advice.

### **Ingestion**

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### **First-aid Comments**

Get medical advice or attention if you feel unwell or are concerned.

### **Most Important Symptoms and Effects, Acute and Delayed**

None known.

### **Immediate Medical Attention and Special Treatment**

#### **Special Instructions**

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

Not sensitive to static discharge.

Not sensitive to mechanical impact.

### **Special Protective Equipment and Precautions for Fire-fighters**

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

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

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure adequate ventilation. Use personal protective equipment.

### **Environmental Precautions**

Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information. Dispose of contents/container to an approved waste disposal plant.

### **Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product.

Collect and reuse if possible. Following product recovery, flush area with water.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product, or its use solutions.

### **Conditions for Safe Storage**

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

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Product Identifier: Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision: November 15, 2019

Page 03 of 08

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Potassium hydroxide	2 mg/m3			2 mg/m3		

### Appropriate Engineering Controls

Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Rubber or vinyl gloves recommended when handling solid chemicals or their use solutions.

#### Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear.
Odour	Slight
Odour Threshold	Not available
pH	13.0 - 14.0
Melting Point/Freezing Point	Not available (melting); Not applicable (freezing)
Initial Boiling Point/Range	100 °C (212 °F)
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Liquid
Use Dilution	Use dilution pH is 11.0 - 12.0 pH
VOC Content	VOC Content (%) = 0%

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Product Identifier: Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision: November 15, 2019

Page 04 of 08

None known.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

**Conditions to Avoid**

None known.

**Incompatible Materials**

None known.

**Hazardous Decomposition Products**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure**

Eye contact; skin contact.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt	Not available	2500 mg/kg (rat)	Not available
Sodium Silicate	Not available	1153 mg/kg (rat)	4640 mg/kg (rabbit)
Potassium hydroxide	Not available	273 mg/kg (rat)	Not available

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

**Skin Corrosion/Irritation**

Causes severe skin burns.

**Serious Eye Damage/Irritation**

Causes serious eye damage.

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information available.

**Respiratory and/or Skin Sensitization**

No information available.

**Carcinogenicity**

Not a carcinogen.

**Reproductive Toxicity**

**Development of Offspring**

No information was located.

**Sexual Function and Fertility**

No information was located.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

Not mutagenic.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful, with long lasting effects to aquatic life, based on acute toxicity tests.

**Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Tetrapotassium Pyrophosphate	> 100 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	100 mg/L (Daphnia magna (water flea); 48-hour)	Not available	Not available
Sodium Silicate	301-476 mg/L (Lepomis macrochirus (bluegill); 96-hour)	216 mg/L (Daphnia magna (water flea); 96-hour)	Not available	Not available
Potassium hydroxide	80 mg/L (96-hour)	Not available	Not available	Not available

**Persistence and Degradability**

No information available.

**Bioaccumulative Potential**

No information available.

**Mobility in Soil**

No information was located.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	un3266	Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)	8	II

**Environmental Hazards** Not applicable**Special Precautions** Not applicable**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Product Identifier: Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision: November 15, 2019

Page 06 of 08

Not applicable

**Emergency Response** 154  
**Guide No.**

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### **Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL/NDSL.

#### USA

##### **Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

##### **Additional USA Regulatory Lists**

SARA Title III - Section 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA Title III - Section 311/312:

Acute Health Hazard	Yes	
Chronic Health Hazard	No	
Fire Hazard	No	
Sudden Release of Pressure Hazard	No	No
Reactive Hazard	No	No

California Proposition 65

This product contains no Proposition 65 chemicals.

U.S. EPA Label Information

EPA Registration Number : Not applicable.

#### **Clean Water Act**

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

CWA - Hazardous Substances :. (Potassium hydroxide)

#### **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):

Hazardous Substances RQs:

Potassium Hydroxide 1000 lb final RQ/ RQ 454 kg final RQ

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

New Jersey Right To Know:.. (Potassium hydroxide)

Massachusetts Right To Know:.. (Potassium hydroxide)

Pennsylvania Right To Know:.. (Potassium hydroxide)

Rhode Island:.. (Potassium hydroxide)

## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 3**      **Flammability - 0**                      **Instability - 0**

**SDS Prepared By**                      Sunburst Chemicals.

Product Identifier:                      Result Shield D - Ver. 4

Date of Preparation:

Date of Last Revision:                      November 15, 2019

Page                      07 of                      08

**Phone No.** 952-884-3144  
**Date of Last Revision** November 15, 2019

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Product Identifier: Result Shield D - Ver. 4  
Date of Preparation:  
Date of Last Revision: November 15, 2019

Page 08 of 08