

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Date of Issue: 07/09/2024

Version: 1.0

# **SECTION 1: IDENTIFICATION**

# 1.1. Product Identifier

Product Form: Mixture

Product Name: ScaleShield Prime

1.2. Intended Use of the Product
Use of the Substance/Mixture: Antiscalant

# 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Alpha Water & Power 9033 Grape Creek Rd San Angelo, Texas 76901 1-800-283-5007 info@awp.co

# 1.4. Emergency Telephone Number

Emergency Number : VelocityEHS

(800)255-3924 (North America) +1 (813)248-0585 (International)

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the Substance or Mixture

#### **GHS-US Classification**

Skin corrosion/irritation Category 2 H315 Serious eye damage/eye irritation Category 2 H319

#### 2.2. Label Elements

# **GHS-US Labeling**

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

**Precautionary Statements (GHS-US)**: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

## 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

# 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substance

Not applicable

### 3.2. Mixture

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Trade Secret Acid*	(CAS-No.) Trade Secret	1-3	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Eye Dam. 1, H318

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes skin irritation. Causes serious eye irritation.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

# 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Above 200°C releases Phosphine gas. Sulfur oxides.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.

# **6.1.1.** For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

## 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

## 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

## 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

# 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong bases, strong oxidizers. Metals. Amines. Alkalis.

# 7.3. Specific End Use(s)

Antiscalant

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

## 8.2. Exposure Controls

**Appropriate Engineering Controls** 

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles.







**Materials for Protective Clothing** 

Hand Protection

Eye and Face Protection

**Skin and Body Protection** 

Respiratory Protection

: Chemically resistant materials and fabrics.

: Wear protective gloves.: Chemical safety goggles.

: Wear suitable protective clothing.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient

atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Clear, colorless
Odor : Odorless

Odor Threshold : No data available

**pH** :  $\leq$  2.5 (@ 25 °C / 77 °F) undiluted

**Evaporation Rate** : No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : > 100 °C (212 °F) **Flash Point** : No data available **Auto-ignition Temperature** : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : Not applicable

Vapor Pressure : As water

Relative Vapor Density at 20°C : No data available

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**Relative Density** : No data available **Specific Gravity** : 1.014 ± 0.005

**Solubility** : Water: Completely soluble

Partition Coefficient: N-Octanol/Water : No data available Viscosity : No data available

**9.2. Other Information** No additional information available

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

#### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

## 10.5. Incompatible Materials

Strong bases, strong oxidizers. Metals. Amines. Alkalis.

#### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Above 200°C releases Phosphine gas. Sulfur oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

Trade Secret Acid	
LD50 Oral Rat	1878 mg/kg
LD50 Dermal Rabbit	> 10000 mg/kg (Source: OECD_SIDS)

Skin Corrosion/Irritation: Causes skin irritation.

**pH:** ≤ 2.5 (@ 25 °C / 77 °F)

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**pH:**  $\leq$  2.5 (@ 25 °C / 77 °F)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

Ecology - General : Not classified.

Trade Secret Acid		
LC50 Fish 1	868 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)	
EC50 - Crustacea [1]	527 mg/l (Exposure time: 48 h - Species: Daphnia magna)	

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LC50 Fish 2	360 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)	
NOEC (Acute)	1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])	

# 12.2. Persistence and Degradability

ScaleShield Prime	
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative Potential

12.5. Dioaccamalative i occinia		
ScaleShield Prime	caleShield Prime	
Bioaccumulative Potential	Not established.	
Trade Secret Acid		
BCF Fish 1	(50)	
Partition coefficient n-octanol/water (Log	-3.5	
Pow)		

# 12.4. Mobility in Soil

No additional information available

## 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

## **SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

## 14.1. In Accordance with DOT

Not regulated for transport

# 14.2. In Accordance with IMDG

Not regulated for transport

## 14.3. In Accordance with IATA

Not regulated for transport

# **SECTION 15: REGULATORY INFORMATION**

## 15.1. US Federal Regulations

ScaleShield Prime	Shield Prime	
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation	
	Health hazard - Serious eye damage or eye irritation	
Trade Secret Acid		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		

## 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 07/09/2024

Other Information : This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

# **GHS Full Text Phrases:**

H290	May be corrosive to metals
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage

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H319 Causes serious eye irritation

## **Glossary of Data Source Abbreviations**

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency) EC RAR: European Commission Renewal Assessment Report

EC\_SCOEL: European Commission Scientific Committee on Occupational

**Exposure Limits** 

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals

Reports

ECHA\_API: European Chemicals Agency API ECHA\_RAC: ECHA Committee for Risk Assessment EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection

Agency

EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency) EPA\_HPV: High Production Volume Chemicals (U.S. Environmental

Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision

(U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

FOOD JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately

Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN GHS: Japan GHS Basis for Classification Data

JP J-CHECK: Japan J-Check

KR\_NIER: South Korea National Institute of Environmental Research

**Evaluations** 

NICNAS: Australia National Industrial Chemicals Notification and Assessment

Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S.

Department of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for

**Economic Co-operation and Development)** 

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-

operation and Development) WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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