

# USCP HP Retarder

## SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product Identifier:** USCP HP Retarder  
**Recommended Use:** Set retarding admixture  
**Use Restrictions:** For industrial use only  
**Company:** US Concrete Products  
**Address:** 16 Greenmeadow Drive #202  
 Timonium, MD 21093  
**Phone:** 1-866-827-8727  
**Website:** [www.uscproducts.com](http://www.uscproducts.com)  
**Emergency:** 1-800-424-9300

### 2. HAZARD IDENTIFICATION

**Physical Hazards:** Not a hazardous substance or mixture  
**Health Hazards:** Skin Corrosion/Irritation Category 0  
 Serious Eye Damage/Irritation Category 0  
 Sensitization, Skin Category 0  
 Carcinogenicity Category 0  
 STOT, Single Exposure Category 1 (Respiratory Tract Irritation)

**Environmental Hazards:** Not a hazardous substance or mixture  
**OSHA Hazard:** Combustible Dust

**Signal Word:**  
**Hazard Statements:** None  
**Precautionary Statements:**

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed.  
**Disposal:** Dispose of contents/container in accordance with local/ regional/national/international regulations.

**Hazards not otherwise Classified (HNOC):** None known.

### 3. COMPOSITION INFORMATION

Chemical Name	CAS Number	Weight %
Sodium Gluconate	527-07-1	100

**Synonyms:** D-Gluconate acid, monosodium salt; Gluconic acid sodium salt; Monosodium Gluconate; Sodium D-Gluconate

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### 4. FIRST-AID MEASURES

<b>General Information:</b>	Sodium Gluconate is an odorless, white crystalline solid. May irritate eyes. Prolonged contact may mildly irritate the skin. Inhalation of airborne dusts may be mildly irritating. When heated to decomposition, Sodium Gluconate may emit toxic and irritating fumes of carbon oxides and sodium oxides.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If symptoms persist after irrigation, see medical attention..
<b>Skin Contact:</b>	Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs <b>consult a physician.</b>
<b>Ingestion:</b>	Rinse mouth immediately. Do not induce vomiting. Consult a physician if symptoms persist.
<b>Inhalation:</b>	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, <b>consult a physician.</b>
<b>Most Important Symptoms:</b>	Irritant effects. Symptoms include itching, burning, redness and tearing. Permanent eye damage, including blindness could result. Discomfort in the chest, shortness of breath, coughing.

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### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Additional Information:</b>	Sufficient heat may produce toxic gases. Can form explosive air-dust mixtures, avoid creating dust.
<b>Hazards during Fire-Fighting:</b>	During a fire, gases hazardous to health may be formed.
<b>Fire-Fighting Procedures:</b>	Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Keep unnecessary personnel away. Avoid generating dust. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation. If the concentration of dust exceeds the permissible exposure limit wear a respirator.
<b>Clean-up Methods:</b>	Avoid dry sweeping. Do not use compressed air to clean spilled silica sand. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system. Dispose of in closed containers.
<b>Environmental Precautions:</b>	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

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### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid generating dust. Mechanical ventilation or local exhaust ventilation is recommended. Use all available work practices to control dust exposure, such as water sprays. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Wear a respirator if dust concentrations exceed permissible exposure limits. Do not permit dust to collect and build up on work surfaces, use good housekeeping. Avoid contact with unhardened cement products. Observe good industrial hygiene practices.
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**Storage:**

Use dust collection to trap dust produced during loading and unloading. Store in a closed container away from incompatible materials (See Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Protect against physical damage.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective Measure:** Wear appropriate personal protective equipment.
- Eye Protection:** Wear chemical splash goggles or safety glasses with side shield.
- Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
- Skin and Body Protection:** Wear long sleeve shirt/long pants and other clothing as required to minimize contact. In case of dust production, dust-proof clothing. Avoid contact with unhardened cement products, if contact occurs wash immediately with soap and water.
- Respirator Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.
- General Hygiene:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
- Engineering Controls:** Mechanical ventilation or local exhaust ventilation is recommended. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.
- Exposure Limits:** ACGIH, OSHA and NIOSH have not developed exposure limits for any of this product components. Exposure limits are given for Particulates Not Otherwise Classified(PNOC)

Component	OSHA (PEL)	ACGIH (TLV)	DFG MAK's
	5 mg/m <sup>3</sup> TWA(Respirable)		4 mg/m <sup>3</sup> TWA(inhalable fraction)
	15 mg/m <sup>3</sup> TWA(Total dust)		1.5 mg/m <sup>3</sup> TWA(Total dust)

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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| <ul style="list-style-type: none"> <li><b>Physical State:</b> White Crystalline Solid</li> <li><b>Form:</b> Powder</li> <li><b>Color:</b> white/yellowish</li> <li><b>Odor:</b> odorless</li> <li><b>Odor Threshold:</b> N/A</li> <li><b>pH:</b> N/A</li> <li><b>Flammability:</b> N/A</li> <li><b>Vapor Pressure:</b> N/A</li> <li><b>Solubility:</b> 59g/100ml @ 25°C</li> <li><b>Decomposition:</b> N/A</li> </ul> | <ul style="list-style-type: none"> <li><b>Freezing/Melting Point:</b> 200-205°C</li> <li><b>Boiling Point:</b> N/A</li> <li><b>Flash Point:</b> N/A</li> <li><b>Evaporation Rate:</b> N/A</li> <li><b>Specific Gravity:</b> 0.9</li> <li><b>VOC:</b> 0 g/L</li> <li><b>U/L Flammability:</b> N/A</li> <li><b>Vapor Density:</b> N/A</li> <li><b>Kow:</b> N/A</li> <li><b>Viscosity:</b> N/A</li> </ul> |
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### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Normally Stable.
<b>Chemical Stability:</b>	Avoid excess contact with heat and incompatible materials.
<b>Condition to Avoid:</b>	Conditions which generate dust.
<b>Substances to Avoid:</b>	Strong oxidizers.
<b>Hazardous Reactions:</b>	The product is stable if stored and handled as prescribed/indicated. Strong bases are formed on the addition of water.
<b>Decomposition Products:</b>	Thermal Decomposition: Carbon oxide and sodium oxides. Hydrolysis: None Known.

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### 11. TOXICOLOGICAL INFORMATION

#### General Information on likely routes of exposure:

<b>Ingestion:</b>	Expected to be a low ingestion hazard.
<b>Inhalation:</b>	Irritation to nose and respiratory tract.
<b>Skin contact:</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Eye contact:</b>	Causes serious eye damage. Particles can cause corneal abrasion.

#### Information on toxicological effects:

<b>Acute toxicity:</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Skin corrosion/irritation:</b>	Can causes skin irritation.
<b>Eye damage/eye irritation:</b>	May Cause eye irritation
<b>Respiratory sensitization:</b>	Not a respiratory sensitizer.
<b>Skin sensitization:</b>	May cause sensitization by skin contact.
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	No data available.
<b>Aspiration hazard:</b>	No data available.
<b>Specific target organ toxicity: Single exposure:</b>	Respiratory tract irritation.

**Further information:** No data available.

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### 12. ECOLOGICAL INFORMATION

**General Product Information:** As shipped, product is not considered a hazardous waste by the EPA.

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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal of Substance:** Do not allow material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Container Disposal:** Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. TRANSPORTATION INFORMATION

**United States Department of Transportation (USDOT):** Not regulated as a hazardous material by DOT.

**International Air Transportation Association (IATA):** Not regulated as a dangerous good.

**International Maritime Dangerous Goods Code (IMDG):** Not regulated as a dangerous good.

**Special precautions for user:** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

### 15. REGULATORY INFORMATION

**US Federal Regulations:** No additional information

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.  
**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**Hazard categories:** Immediate Hazard no  
 Delayed Hazard no

**US State Right-To-Know Lists -**

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK
Sodium Gluconate (CAS# 527-07-1)	NO	NO	NO	NO

**US. California Proposition 65:** WARNING: This product is not on chemical list.

Component	TSCA	DSL	EINECS
Sodium Gluconate (527-07-1)	Yes	Yes	Yes

**International Inventories**

Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

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Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

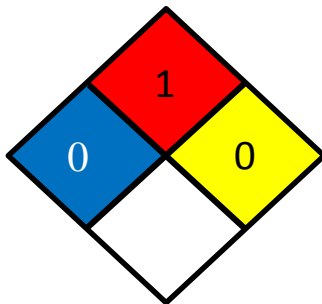
### WHMIS Hazard Classification

NOT	LISTED

### 16. OTHER INFORMATION

**Date Prepared or Revised:** January 2015  
**Supersedes:** August 2013

#### NFPA Ratings



#### HMIS Rating

HEALTH HAZARD	0
FLAMMABILITY HAZARD	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

#### Legend

- ACGIH:** American Conference of Governmental Industrial Hygienists
- CAS No.:** Chemical Abstract Service Registry Number
- CERCLA:** Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
- CPR:** Controlled Product Regulations (Canada)
- DOT:** Department of Transportation (U.S.)
- EPA:** Environmental Protection Agency (U.S.)
- GHS:** Globally Harmonized System of Classification and Labeling of Chemicals
- HEPA:** High-Efficiency Particulate Air
- HMIS:** Hazardous Materials Identification System
- IARC:** International Agency for Research on Cancer
- IATA:** International Air Transport Association
- IMDG:** International Maritime Dangerous Goods code
- LPP:** Limité Permissible Ponderado (Chile)
- NIOSH:** National Institute of Occupational Safety and Health (U.S.)
- NFPA:** National Fire Protection Association (US)
- NTP:** National Toxicology Program (US)

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<b>OSHA:</b>	Occupational Safety and Health Administration (U.S.)
<b>PEL:</b>	Permissible Exposure Limit
<b>SARA:</b>	Superfund Amendments and Reauthorization Act (U.S. EPA)
<b>SDS:</b>	Safety Data Sheet
<b>STEL:</b>	Short Term Exposure Limit (15 minute Time Weighted Average)
<b>STOT:</b>	Specific Target Organ Toxicity (GHS Classification)
<b>TLV:</b>	Threshold Limit Value
<b>TSCA:</b>	Toxic Substances Control Act (U.S.)
<b>TWA:</b>	Time Weighted Average (exposure for 8-hour workday)
<b>U.S.:</b>	United States
<b>VOC:</b>	Volatile Organic Compounds
<b>WHMIS:</b>	Canadian Workplace Hazardous Materials Information System

Safety Data Sheet (SDS) is prepared in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.