

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

MSDS Number: 000000024189

Revision Date: 4/24/2015

SECTION 1. IDENTIFICATION

Product name : HTH® SALT POOL CARE RESTORE & BALANCE

Product code : 000000024189

Manufacturer or supplier's detailsCompany : Arch Chemicals, Inc.
90 Boroline Road
Allendale, NJ
07401

E-mail address : prodinfo@lonza.com

Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,
CHEMTREC WORLD: 1-703-527-3887.**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.Precautionary statements : **Prevention:**
P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT
induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately
all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air
and keep comfortable for breathing. Immediately call a POISON
CENTER or doctor/ physician.

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

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P305 + P351 + P338 + P310 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 CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 99.9 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Potassium hydrogenperoxomonosulphate	10058-23-8	32.3 - 34.4
Potassium sulfate	7778-80-5	21.8 - 23.2
Potassium hydrogensulphate	7646-93-7	17.3 - 18.4
Polyphosphoric acids, sodium salts	68915-31-1	15.0 - 19.0
Aluminum Sulfate	17927-65-0	5.0 - 7.0
Dipotassium peroxodisulphate	7727-21-1	2.3 - 2.4
Magnesium carbonate	546-93-0	1.5 - 1.6

SECTION 4. FIRST AID MEASURES

- If inhaled : IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.
- In case of skin contact : IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.
- In case of eye contact : IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
- If swallowed : IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water only.

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

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- Specific hazards during firefighting : Material will not ignite or burn.
Will release oxygen when heated, intensifying a fire
- Further information : In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Use water to cool containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

- Air : Keep people away from and upwind of spill/leak.
- Water : This material is soluble in water.
Notify all downstream users of possible contamination.
Divert water flow around spill if possible and safe to do so.
- Soil : Sweep up and place in suitable clean, dry containers for reclamation or later disposal.
Avoid dust generation.
Do not place spill materials back in their original containers.
After removal, flush contaminated area thoroughly with water.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing.
Upon contact with skin or eyes, wash off with water.
Avoid inhalation of dust and fumes.
- Conditions for safe storage : Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

- Engineering measures** : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Personal protective equipment

- Respiratory protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.
- Filter type : Wear a NIOSH approved N95 respirator.

Hand protection

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

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Revision Date: 4/24/2015

Remarks	:	Wear impervious gloves to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.
Eye protection	:	Use chemical goggles.
Skin and body protection	:	Neoprene
Protective measures	:	An eye wash and safety shower should be provided in the immediate work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	No data
pH	:	1.5 - 3.0, 1% solution
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Product is not known to be flammable, combustible, pyrophoric or explosive.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	No data
Relative vapour density	:	No data
Relative density	:	No data
Density	:	1.055 g/cm ³
Solubility(ies) Water solubility	:	Soluble
Partition coefficient: n-octanol/water	:	No data
Decomposition temperature	:	No data
Oxidizing properties	:	No data
Molecular weight	:	Method: No data

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SECTION 10. STABILITY AND REACTIVITY

- Possibility of hazardous reactions : Stable under normal conditions.
Product will not undergo hazardous polymerization.
- Conditions to avoid : Sparks, open flame, other ignition sources, and elevated temperatures.
- Incompatible materials : HalidesCyanidesHeavy metals such as cobalt, nickel, copper, or manganeseoxidizers
- Hazardous decomposition products : Carbon monoxide, Carbon dioxide
Decomposes when heated or dampened, releasing oxygen and heat
-

SECTION 11. TOXICOLOGICAL INFORMATION

- Information on likely routes of exposure : Inhalation, skin, eyes, ingestion
- Acute toxicity**
- Acute oral toxicity (LD50) : Believed to be approximately 2,100 mg/kg
Species: Rat
- Acute inhalation toxicity (Inhalation LC50) : Believed to be > 18.8 mg/l
Species: Rat
Exposure time: 1 h
Remarks: (aerosol dust)
- Acute dermal toxicity (LD50) : Believed to be > 2,000 mg/kg
Species: Rabbit
- Subchronic/Chronic Toxicity : Not known or reported to cause subchronic or chronic toxicity.
- Skin corrosion/irritation**
- Skin irritation : Remarks: This material is expected to be corrosive.
- Serious eye damage/eye irritation**
- Eye irritation : Remarks: Corrosive to eyes.
- Respiratory or skin sensitisation**
- Sensitisation : Remarks: Possible skin sensitizer based on animal tests
- Further information**
- Remarks: No additional health information available.
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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

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Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Additional ecological information : Moderately toxic to fish and other aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. For disposal follow local, state, Federal guidelines.

SECTION 14. TRANSPORT INFORMATION**IATA**

UN number : 3260
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Labels : 8
Environmental hazards : no

IMDG

UN number : 3260
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: no

HTH® SALT POOL CARE RESTORE & BALANCE

Version 1.0

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ADR

UN number : 3260
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Classification Code : C2
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

RID

UN number : 3260
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Classification Code : C2
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

DOT

UN number : 3260
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Labels : 8
Emergency Response Guidebook Number : 154
Environmental hazards : no

TDG

UN number : 3260
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
(Potassium hydrogenperoxomonosulphate)
Transport hazard class : 8
Packing group : II
Labels : 8
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

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Version 1.0

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Revision Date: 4/24/2015

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
	17927-65-0	5000	83333

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know

Aluminum Sulfate	17927-65-0
Dipotassium peroxodisulphate	7727-21-1
Magnesium carbonate	546-93-0

Pennsylvania Right To Know

Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Potassium hydrogensulphate	7646-93-7
Polyphosphoric acids, sodium salts	68915-31-1
Aluminum Sulfate	17927-65-0
Dipotassium peroxodisulphate	7727-21-1

New Jersey Right To Know

Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Potassium hydrogensulphate	7646-93-7
Polyphosphoric acids, sodium salts	68915-31-1
Aluminum Sulfate	17927-65-0
Dipotassium peroxodisulphate	7727-21-1
Magnesium carbonate	546-93-0

California Prop 65

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

The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

: Aluminum Sulfate

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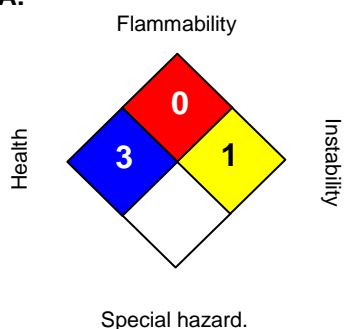
Version 1.0

MSDS Number: 000000024189

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Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

1

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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 to 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.