

HTH® PH Minus

Version 1.0

MSDS Number: 000000022981

Revision Date: 4/23/2015

SECTION 1. IDENTIFICATION

Product name : HTH® PH Minus

Product code : 000000022981

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

Telephone : FOR ANY EMERGENCY, CALL 24 HOURS/7DAYS: 1-800-654-6911 (OUTSIDE USA: 423-780-2970) FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300 FOR ALL MSDS QUESTIONS & REQUESTS: 1-800-511-MSDS

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**

Skin irritation : Category 2

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.
P312 Call a POISON CENTER or doctor/ physician if you feel un-

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well.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Sulfate

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Sodium hydrogensulphate	7681-38-1	91.5 - 94.7
Sodium sulphate	7757-82-6	4.8 - 8.0

SECTION 4. FIRST AID MEASURES

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.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Not Applicable. - Choose extinguishing media suitable for surrounding materials.

Specific hazards during firefighting : Material will not ignite or burn.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Environmental precautions

Air : Vapors may be suppressed by the use of water fog.
Water : Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all solids for treatment or disposal.
Soil : Sweep up and place in suitable clean, dry containers for reclama-

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tion or later disposal.
Do not place spill materials back in their original containers.

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 breathing dust from this material.
- 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. Avoid contact with water, or moist air.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

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

Contains no substances with occupational exposure limit values.

- Engineering measures** : Local exhaust ventilation is recommended if significant dusting occurs. Otherwise use general exhaust ventilation.

Personal protective equipment

- Respiratory protection : If dusting occurs, wear a NIOSH approved respirator. NIOSH approved full-face air purifying respirator with an N95 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.
- Hand protection
- Remarks: Wear impervious gloves to avoid skin contact.
- Respiratory protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible. Wear a NIOSH approved N95 respirator.
- Eye protection : Use chemical goggles.
- Skin and body protection : Butyl rubber
Neoprene
- Protective measures : An eye wash and safety shower should be provided in the immediate work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : granular
- Colour : off-white
- Odour : pungent

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pH	:	< 1.0, @ 5% aqueous solution
Melting Point	:	177 °C
Boiling Point	:	decomposes
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	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	2.7400
Density	:	No data.
Solubility(ies) Water solubility	:	1,080.00 g/l @ 20 Deg. C
Partition coefficient: n- octanol/water	:	Not applicable
Decomposition temperature	:	315 °C
Viscosity Viscosity, dynamic	:	no data available
Oxidizing properties	:	No data
Molecular weight	:	120.00 g/mol

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Avoid moisture. Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to avoid	:	Sparks, open flame, other ignition sources, and elevated temperatures.
Incompatible materials	:	AcidsBasesoxidizers
Hazardous decomposition products	:	Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : Inhalation, skin, eyes, ingestion

Acute toxicity

Acute oral toxicity (LD50) : > 3,000 mg/kg
Species: Rat
Remarks: Believed to be

Acute inhalation toxicity (Inhalation LC50) : Remarks: No data

Acute dermal toxicity (LD50) : > 2,000 mg/kg
Species: Rabbit
Remarks: Believed to be

Subchronic/Chronic Toxicity : Not known or reported to cause subchronic or chronic toxicity.

Skin corrosion/irritation

Skin irritation : Remarks: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION.WET MATERIAL CAUSES SKIN BURNS.

Serious eye damage/eye irritation

Eye irritation : Remarks: Corrosive to eyes.

Respiratory or skin sensitisation

Sensitisation : Remarks: This material is not known or reported to be a skin or respiratory sensitizer.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information

Remarks: No additional health information available.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

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Other adverse effects

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

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.
For disposal follow local, state, Federal guidelines.**SECTION 14. TRANSPORT INFORMATION****IATA**

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no**IMDG**

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no**ADR**

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no**RID**

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

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DOT : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

TDG : Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
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

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

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

Sodium sulphate 7757-82-6

Pennsylvania Right To Know

Sodium hydrogensulphate 7681-38-1

Sodium sulphate 7757-82-6

New Jersey Right To Know

Sodium hydrogensulphate 7681-38-1

Sodium sulphate 7757-82-6

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.

Inventories

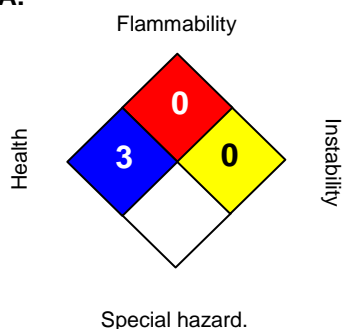
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

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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.