

HTH® PHOSPHATE REMOVER

Version 1.0

MSDS Number: 000000023763

Revision Date: 4/24/2015

SECTION 1. IDENTIFICATION

Product name : HTH® PHOSPHATE REMOVER

Product code : 000000023763

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**

Eye irritation : Category 2B

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H320 Causes eye irritation.
H335 May cause respiratory irritation.Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or

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doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Lanthanum salt

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Lanthanum salt derivative		35.0 - 65.0
Water	7732-18-5	35.0 - 65.0

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.
- In case of skin contact : IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
- In case of eye contact : IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
- If swallowed : IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water
Dry chemical
Carbon dioxide
Sand
Foam

Specific hazards during firefighting : Material will not ignite or burn.
During a fire, irritating and highly toxic gases may be generated by

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thermal decomposition or combustion.

- 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 : Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Environmental precautions

- Air : All water utilized to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or treatment.
- 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 : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Avoid runoff into storm sewers and ditches which lead to waterways.

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 mist or vapor.
- Conditions for safe storage : Store in a cool, dry and well ventilated place. Keep container closed when not in use.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

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

- Engineering measures** : No exposure limits exist for the constituents of this product. Additional ventilation beyond that of general exhaust is not normally required.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

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Remarks	:	Wear impervious gloves to avoid skin contact.
Eye protection	:	Use safety glasses with side shields.
Skin and body protection	:	Impervious

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	None
pH	:	3.5 to 4.5
Flash point	:	Not applicable
Evaporation rate	:	No data
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	:	4.10 hPa(@ 25 Deg. C)
Relative vapour density	:	No data
Relative density	:	No data
Density	:	No data
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	No data.
Decomposition temperature	:	No data
Viscosity Viscosity, dynamic	:	no data available
Oxidizing properties	:	No data
Molecular weight	:	245 g/mol

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Stable under normal conditions. Product will not undergo hazardous polymerization.
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Conditions to avoid : High temperatures

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Hydrogen chloride

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Skin, eyes, ingestion

Acute toxicity

Acute oral toxicity (LD50) : Believed to be > 5,000 mg/kg
Species: Rat

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

Acute dermal toxicity : Remarks: no data available

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

Skin corrosion/irritation

Skin irritation : Assessment: mildly irritating
Remarks: May cause mild skin irritation.

Serious eye damage/eye irritation

Eye irritation : Assessment: mildly irritating
Remarks: May cause mild eye irritation.

Respiratory or skin sensitisation

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

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 : no data available

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 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

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

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Lanthanum salt derivative

New Jersey Right To Know

Lanthanum salt derivative

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.

: Lanthanum chloride heptahydrate

Inventories

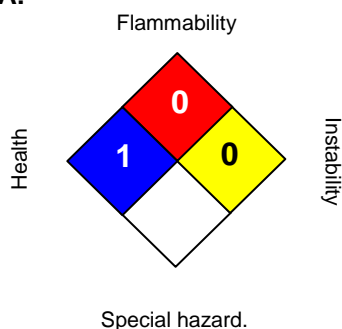
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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

HEALTH	1
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.