

# **Safety Data Sheet**

OSHA format Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name PH MODIFIER 0.5N HCL

Other means of identification

Product Code(s) CSR-6025 UN-No 1789

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory

reagent.

Details of the supplier of the safety data sheet

Supplier Address International Chemstar 9601 Pulaski Park Drive, Ste 406 Middle River, MD 21220 410-391-7516

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

# 2. HAZARDS IDENTIFICATION

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

# **EMERGENCY OVERVIEW**

#### DANGER

#### Hazard statements

Causes severe skin burns and eye damage.



Appearance Clear, colorless

Physical state liquid

Odor None

#### **Precautionary Statements - Prevention**

Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting.

#### Storage

Store locked up.

#### **Disposal**

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

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS\*

Chemical name	CAS No	Weight-%
Hydrochloric acid	7647-01-0	1.8

# 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation persists or develops, contact a physician.

**Skin contact**Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Call a physician immediately.

Ingestion Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Consult a

physician. Never give anything by mouth to an unconscious person.

<u>Self-protection of the first aider</u> Use personal protective equipment. See section 8 for more information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device.

# 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment. See section 8. Avoid

contact with skin, eyes, and inhalation of vapors.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent Methods for cleaning up

splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room Storage

temperature. Keep away from direct sunlight. Store away from incompatible materials. Keep

out of the reach of children.

**Incompatible Products** Strong bases. Metals. Cyanides. Sulfides. Formaldehyde.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	Ceiling: 2 ppm	Ceiling 5 ppm (7mg/m³)	IDLH: 50 ppm
7647-01-0			Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Measures Showers** 

> Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves/clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or **Hygiene Measures** 

smoke when using this product. Wash hands before breaks and immediately after handling

the product. Take off contaminated clothing and wash before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Clear, colorless None **Appearance** Odor

**Property** Values Remarks • Method

No information available Melting point / freezing point

**Boiling point / boiling range** 100 °C / 212 °F **Flash point** Not Applicable

**Evaporation rate** 

Flammability (solid, gas)

Flammability Limit in Air

No information available

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific gravity ca. 1

Water solubility No information available Solubility in other solvents No information available No information available Partition coefficient **Autoignition temperature** No information available No information available **Decomposition temperature** Kinematic viscosity No information available No information available Dynamic viscosity **Explosive properties** No information available No information available **Oxidizing properties** 

#### Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

#### 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Excessive heat. Incompatible products. Direct sunlight.

Incompatible materials Strong bases. Metals. Cyanides. Sulfides. Formaldehyde.

**Hazardous decomposition products** Chlorine gas. Hydrogen gas. Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component identification** 

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Hydrochloric acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat)1 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	Not Established	Group 3	Not Established	X
7647-01-0		•		

ATEmix (oral) 13,222.00 mg/kg ATEmix (inhalation-dust/mist) 27.83 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 98.2 % of the mixture consists of com-		onents(s) of unknown haza	ards to the a	iquatic environment		
Chemical name		Toxicity to Algae	Toxicity to Fish	Dani	hnia Magna (Water Flea)	

Hydrochloric acid	Not Established	282: 96 h Gambusia affinis mg/L	Not Established
7647-01-0		LC50 static	

# Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Hydrochloric acid	Not Established
7647-01-0	

# 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose according to federal, state, and local regulations. If permitted, neutralize reagent

with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute,

rinse to drain with excess water.

**Contaminated packaging** Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrochloric acid	Not Established	-	Not Established	Not Established
7647-01-0				

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hydrochloric acid 7647-01-0	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Hydrochloric acid	-
7647-01-0	

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name HYDROCHLORIC ACID

UN-No 1789
Hazard Class 8
Packing group III
Reportable Quantity (RQ) 5000

<u>IATA</u>

Proper shipping name HYDROCHLORIC ACID

UN-No 1789 Hazard Class 8 Packing group III

IMDG/IMO

Proper shipping name HYDROCHLORIC ACID

UN-No 1789 Hazard Class 8 Packing group III

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies Complies **PICCS** Complies **AICS** 

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Hydrochloric acid	1.0
7647-01-0	
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
<b></b>	<b>.</b> 1

Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0	5000 lb	Not Established	Not Established	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Hydrochloric acid	5000 lb	5000 lb	RQ 5000 lb final RQ
7647-01-0			RQ 2270 kg final RQ

# **US State Regulations**

## California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Hydrochloric acid	Not Established
7647-01-0	

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid	X	X	X

7647-01-0		

# CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances		
Hydrochloric acid 7647-01-0	Add POISON to label, 16 CFR 1500.129		
16. OTHER INFORMATION			

NFPA_	Health hazard 1	Flammability 0	Instability 1	Physical and Chemical
				Hazards N/A
Health hazard 1	Flammability 0	Stability 1		



Prepared by Issuing Date Reason for revision Disclaimer Regulatory Affairs Department Sep-29-2016 New US GHS format

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**End of Safety Data Sheet**