

## SAFETY DATA SHEET

#### 1. Identification

Product identifier HYDROGEN CHLORIDE, 5-6 N, IN ISOPROPYL ALCOHOL

Other means of identification

Product code 2474

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name Address**GFS Chemicals, Inc.
P.O. Box 245
Powell, OH 43065

United States

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@gfschemicals.com

**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

## 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 1 (central nervous system, kidney,

systemic toxicity)

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2 (blood vessel, liver, spleen)

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

**OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. Causes severe skin burns and eye damage. Causes serious eye

damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system, kidney, systemic toxicity). May cause damage to organs (blood vessel, liver, spleen) through prolonged or repeated exposure. Toxic to aquatic life.

repeated exposure. Toxic to aquatic life.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

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protection.

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IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If swallowed: Rinse Response

mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated clothing before reuse. In case of fire: Use appropriate media

to extinguish.

Storage Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with **Disposal** 

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 20% of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
ISOPROPYL ALCOHOL	ISOPROPANOL 2-PROPANOL	67-63-0	80 - < 90	
HYDROGEN CHLORIDE		7647-01-0	20 - < 30	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Edema. Jaundice. Prolonged exposure may cause chronic effects.

**Indication of immediate** medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. IF exposed or concerned: Get medical

advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing

before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

**Special protective equipment** and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

equipment/instructions **Specific methods** 

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Highly flammable liquid and vapor.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.

Large Spills: Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

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## 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Туре	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m3	
,		400 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	2 ppm	
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm	
•	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	7 mg/m3	
•		5 ppm	

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US. NIOSH: Pocket Guide to Che Components	emical Hazards Type	Value	
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 mg/m3	
,	TWA	500 ppm 980 mg/m3	
	1 **/	400 ppm	

#### **Biological limit values**

US.	ACGIH.	BEIs.	<b>Biological</b>	<b>Exposure</b>	<b>Indices</b>
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Components	Value	Determinant	Specimen	Sampling Time	
ISOPROPYL ALCOHOL (CAS 67-63-0)	5 40 mg/l	Acetone	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. Chemical respirator with acid gas

cartridge.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Observe any medical surveillance requirements. When using do not smoke. 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.

## 9. Physical and chemical properties

**Appearance** Clear. **Physical state** Liquid. Liauid. **Form** Color Colorless.

Odor Pungent. Alcoholic. **Odor threshold** Not available.

< 1 pН

Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range Flash point

64.3 °F (17.9 °C) estimated

**Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower 2.5 % estimated

(%)

Flammability limit -

12 % estimated

upper (%)

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

109.72 hPa estimated Vapor pressure

2474 Version #: 03 4 / 10 Vapor density Not available. **Relative density** Not available.

Solubility(ies)

Miscible. Solubility (water) **Partition coefficient** Not available. (n-octanol/water)

**Auto-ignition temperature** 

750.2 °F (399 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 0.91 g/cm3 **Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Flash point class Flammable IB **Oxidizing properties** Not oxidizing.

Percent volatile 100 % Specific gravity 0.91 VOC 75 - 85 %

## 10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash

point. Contact with incompatible materials. Do not mix with other chemicals.

**Incompatible materials** Acids. Bases. Strong oxidizing agents. Reducing agents. Amines. Isocyanates. Chlorine.

**Hazardous decomposition** 

products

Hydrogen chloride. May include oxides of carbon.

### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause damage to organs by inhalation. May cause damage to organs through prolonged or

repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea,

vomiting. May cause irritation to the respiratory system.

Skin contact Causes severe skin burns. **Eye contact** Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Edema. Jaundice.

## Information on toxicological effects

#### **Acute toxicity**

Product	Species	Test Results	
HYDROGEN CHLORIDE,	5-6 N, IN ISOPROPYL ALCOHOL		
<u>Acute</u>			
Dermal			
LD50	Mouse	7245 mg/kg	
	Rabbit	12041 mg/kg	
Inhalation			
LC50	Mouse	5540 mg/l	
	Rat	15620 mg/l	
Oral			
LD50	Dog	5996 mg/kg	
	Mouse	4500 mg/kg	

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Product	Species Test Results	
	Rabbit	3001 mg/kg
	Rat	6434 mg/kg
Other		
LD50	Mouse	1497 mg/kg
Components	Species	Test Results
HYDROGEN CHLORIDE (CA	AS 7647-01-0)	
<u>Acute</u>		
Dermal		4440 //
LD50	Mouse	1449 mg/kg
Inhalation	Mouse	1100 mg/l 1 Hours
LC50	Mouse	1108 mg/l, 1 Hours
	Rat	3124 mg/l, 1 Hours
<b>Oral</b> LD50	Rabbit	900 mg/kg
	Rabbit	900 mg/kg
<b>Other</b> LD50	Mouse	1449 mg/kg
ISOPROPYL ALCOHOL (CA		I I I J I IIIg/ kg
Acute	3 07-03-0)	
<u> </u>		
LD50	Rabbit	5030 - 7900 mg/kg
		12800 mg/kg
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
		4.5 g/kg
	Rabbit	8000 mg/kg
		6410 mg/kg
		5.03 g/kg
	Rat	4700 - 5800 mg/kg
		5045 mg/kg
		4.7 g/kg
Other		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg

Tost Docults

Species

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Product

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** Causes irritation.

 $\textbf{Germ cell mutagenicity} \qquad \qquad \text{No data available to indicate product or any components present at greater than } 0.1\% \text{ are}$ 

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROGEN CHLORIDE (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

**US OSHA Hazard Categories (1)** 

Not regulated.

**US OSHA Hazard Categories (10)** 

Not regulated.

**US OSHA Hazard Categories (2)** 

Not regulated.

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 $<sup>\</sup>ensuremath{^*}$  Estimates for product may be based on additional component data not shown.

**US OSHA Hazard Categories (3)** 

Not regulated.

**US OSHA Hazard Categories (4)** 

Not regulated.

**US OSHA Hazard Categories (5)** 

Not regulated.

**US OSHA Hazard Categories (6)** 

Not regulated.

**US OSHA Hazard Categories (7)** 

Not regulated.

**US OSHA Hazard Categories (8)** 

Not regulated.

**US OSHA Hazard Categories (9)** 

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure

Causes damage to organs (central nervous system, kidney, systemic toxicity). May cause

respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity

- repeated exposure

May cause damage to organs (blood vessel, liver, spleen) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Because of the low pH of this product, it would be expected to produce

significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Product Species Test Results** 

HYDROGEN CHLORIDE, 5-6 N, IN ISOPROPYL ALCOHOL

**Aquatic** 

Fish LC50 Fish 1192.662 mg/l, 96 hours estimated

Components **Species Test Results** 

HYDROGEN CHLORIDE (CAS 7647-01-0)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours

ISOPROPYL ALCOHOL (CAS 67-63-0)

**Aquatic** 

LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours Fish

#### Persistence and degradability

## **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)

ISOPROPYL ALCOHOL 0.05

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this

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.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**UN number** UN2924

**UN proper shipping name** Flammable liquids, corrosive, n.o.s. (ISOPROPYL ALCOHOL, HYDROGEN CHLORIDE RQ = 25000

LBS)

243

Transport hazard class(es)

Class 3
Subsidiary risk 8
Label(s) 3, 8
Packing group II

**Special precautions for** 

user

Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T11, TP2, TP27
Packaging exceptions 150
Packaging non bulk 202

Packaging bulk

**IATA** 

**UN number** UN2924

**UN proper shipping name** Flammable liquid, corrosive, n.o.s. (ISOPROPYL ALCOHOL, HYDROGEN CHLORIDE)

Transport hazard class(es)

Class 3
Subsidiary risk 8
Packing group II
Environmental hazards No.
ERG Code 3CH

**Special precautions for** 

user

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Other information

Allowed with restrictions.

Cargo aircraft only

**ft only** Allowed with restrictions.

**IMDG** 

UN number UN2924

**UN proper shipping name** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPYL ALCOHOL, HYDROGEN CHLORIDE)

Transport hazard class(es)
Class 3
Subsidiary risk 8
Packing group II

Packing group II Environmental hazards

Marine pollutant No. EmS F-E, S-C

**Special precautions for** Read safety instructions, SDS and emergency procedures before handling.

user

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

DOT



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#### IATA; IMDG



## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

HYDROGEN CHLORIDE (CAS 7647-01-0)

Listed.

#### SARA 304 Emergency release notification

HYDROGEN CHLORIDE (CAS 7647-01-0)

5000 LBS

**US OSHA Hazard Categories (1)** 

Not regulated.

### **US OSHA Hazard Categories (2)**

Not regulated.

## **US OSHA Hazard Categories (3)**

Not regulated.

#### **US OSHA Hazard Categories (4)**

Not regulated.

## **US OSHA Hazard Categories (5)**

Not regulated.

## **US OSHA Hazard Categories (6)**

Not regulated.

## **US OSHA Hazard Categories (7)**

Not regulated.

#### **US OSHA Hazard Categories (8)**

Not regulated.

#### **US OSHA Hazard Categories (9)**

Not regulated.

## **US OSHA Hazard Categories (10)**

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Chemical name CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
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HYDROGEN CHLORIDE 7647-01-0

5000

500

SARA 311/312

**2** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
HYDROGEN CHLORIDE	7647-01-0	20 - < 30	

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

HYDROGEN CHLORIDE (CAS 7647-01-0)

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### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

HYDROGEN CHLORIDE (CAS 7647-01-0) **Safe Drinking Water Act** Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

HYDROGEN CHLORIDE (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROGEN CHLORIDE (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

HYDROGEN CHLORIDE (CAS 7647-01-0) 6545

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ISOPROPYL ALCOHOL (CAS 67-63-0) Low priority

**Inventory name** 

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is

not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

On inventory (yes/no)\*

Yes

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

HYDROGEN CHLORIDE (CAS 7647-01-0) ISOPROPYL ALCOHOL (CAS 67-63-0)

#### **International Inventories**

Country(s) or region

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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information, including date of preparation or last revision

Issue dateApril-03-2015Revision dateApril-24-2017

Material name: HYDROGEN CHLORIDE, 5-6 N, IN ISOPROPYL ALCOHOL

Version # 03

United States & Puerto Rico

**Disclaimer** GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).