

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Hydroxylamine Hydrochloride, 3% w/v

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/17/2015 Version: 1.0

	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Hydroxylamine Hydrochloride, 3% w/v
Product code	: LC15520
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of t	he safety data sheet
LabChem Inc Jackson's Pointe Commerce Park Buil Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	lding 1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone num	nber
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identifi 2.1. Classification of the subst Classification (GHS-US) Skin Sens. 1 H317 Carc. 2 H351 STOT RE 2 H373 Aquatic Acute 2 H401 Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07 GHS08

- : Warning
- : H317 May cause an allergic skin reaction
 - H351 Suspected of causing cancer
 - H373 May cause damage to organs (blood) through prolonged or repeated exposure
 - H401 Toxic to aquatic life
 - : P201 Obtain special instructions before use
 - P202 Do not handle until all safety precautions have been read and understood
 - P260 Do not breathe mist
 - P272 Contaminated work clothing must not be allowed out of the workplace
 - P273 Avoid release to the environment
 - P280 Wear protective gloves, protective clothing, eye protection
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water
 - P308+P313 IF exposed or concerned: Get medical advice/attention
 - P314 Get medical advice and attention if you feel unwell
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention
 - P362+P364 Take off contaminated clothing and wash it before reuse
 - P405 Store locked up
 - P501 Dispose of contents/container to comply with local, state and federal regulations

2.3.	Other hazards		
Other hazards not contributing to the classification		: None under normal conditions.	
2.4.	Unknown acute toxicity (GHS-US)		
Not app	Not applicable		
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SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable 3.2. Mixture Product identifier % Classification (GHS-US)

Name	Product identifier	70	Classification (Gho-05)
Water	(CAS No) 7732-18-5	97	Not classified
Hydroxylamine Hydrochloride	(CAS No) 5470-11-1	3	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: Possible inflammation of the respiratory tract.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Mild eye irritation.
Symptoms/injuries after ingestion	: Nausea. Vomiting.
4.3. Indication of any immediate medical	attention and special treatment needed
Obtain medical assistance.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Jnsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	ostance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	upment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Protective clothing. Gloves.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
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6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	y authorities if liquid enters sewers or public waters. Avoid release to the environment.		
6.3. Methods and material for containme	Methods and material for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal	protection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.		
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, includir	ng any incompatibilities		
Storage conditions	: Keep container closed when not in use.		
Incompatible products	: Strong oxidizers.		
Incompatible materials : Sources of ignition. Direct sunlight.			
7.3. Specific end use(s)			

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Hydroxylamine Hydrochloric	le, 3% w/v		
ACGIH	Not applicable		
OSHA	Not applicable		
Hydroxylamine Hydrochloric	Hydroxylamine Hydrochloride (5470-11-1)		
ACGIH	Not applicable		
OSHA	Not applicable		
Water (7732-18-5)			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chei	nical properties	
9.1. Information on basic physic	Information on basic physical and chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: None.	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=	1) : No data available	
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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Hydroxylamine Hydrochloride: 95 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
No additi	No additional information available			
10.2.	Chemical stability			
Stable ur	Stable under normal conditions.			
10.3.	Possibility of hazardous reactions			
Not estal	blished.			
10.4.	Conditions to avoid			
Direct sunlight. Extremely high or low temperatures.				
10.5.	Incompatible materials			
Strong oxidizers.				
10.6.	Hazardous decomposition products			
Gaseous ammonia. Carbon monoxide. Carbon dioxide. Nitrogen oxides.				
SECTION 11: Toxicological information				

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Hydroxylamine Hydrochloride (5470-11-1)		
LD50 oral rat	200 - 2000 mg/kg (Rat)	
LD50 dermal rabbit	400 - 2000 mg/kg (Rabbit)	
ATE US (oral)	200.000 mg/kg body weight	
ATE US (dermal)	400.000 mg/kg body weight	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
ATE US (oral)	90000.000 mg/kg body weight	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Not classified	
Respiratory or skin sensitization	May cause an allergic skin reaction.	

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
Reproductive toxicity	
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: May cause damage to organs (blood) through prolonged or repeated exposure.
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/injuries after inhalation	: Possible inflammation of the respiratory tract.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injunes and Skin contact	. Way cause an ancigic skill reaction.
Symptoms/injuries after eye contact	: Mild eye irritation.
Symptoms/injuries after ingestion	: Nausea. Vomiting.
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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life.
Hydroxylamine Hydrochloride (5470-11-1)	
LC50 fish 1	7.2 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	1.62 mg/l (48 h; Daphnia magna; Estimated value)

Hydroxylamine Hydrochloride, 3% w/v	
Persistence and degradability	Not established.
Hydroxylamine Hydrochloride (5470-11-1)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Hydroxylamine Hydrochloride, 3% w/v	
Bioaccumulative potential	Not established.
Hydroxylamine Hydrochloride (5470-11-1)	
Bioaccumulative potential	Not bioaccumulative.
Water (7732-18-5)	
Bioaccumulative potential	Not established.

No additional information available

12.5. Other adverse effects	
Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

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SECTION 13: Disposal considerations	5	
13.1. Waste treatment methods		
Naste disposal recommendations		e manner in accordance with local/national regulations. Dispose of mer to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to	the environment.
SECTION 14: Transport information		
n accordance with DOT		
Not regulated for transport		
Additional information		
Other information	: No supplementa	ary information available.
ADR		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
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Hydroxylamine Hydrochloride, 3% w/v SARA Section 311/312 Hazard Classes		Immediate (courte) beatth becard
SANA SECIULI STIJSTZ HAZALU GIASSES		
	uded from listing, c	Immediate (acute) health hazard Delayed (chronic) health hazard In the United States Environmental Protection Agency Toxic
All components of this product are listed, or exclusion Substances Control Act (TSCA) inventory This product or mixture does not contain a toxic of	chemical or chemic porting requirement	Delayed (chronic) health hazard
All components of this product are listed, or exclusion Substances Control Act (TSCA) inventory This product or mixture does not contain a toxic of specified in 40 CFR §372.38(a) subject to the rep	chemical or chemic porting requirement	Delayed (chronic) health hazard n the United States Environmental Protection Agency Toxic cals in excess of the applicable de minimis concentration as
All components of this product are listed, or exclusion substances Control Act (TSCA) inventory This product or mixture does not contain a toxic of specified in 40 CFR §372.38(a) subject to the representation Act of 1986 and 40 CFR Part 37	chemical or chemic porting requirement 2.	Delayed (chronic) health hazard n the United States Environmental Protection Agency Toxic cals in excess of the applicable de minimis concentration as
All components of this product are listed, or exclusion substances Control Act (TSCA) inventory This product or mixture does not contain a toxic specified in 40 CFR §372.38(a) subject to the representation Act of 1986 and 40 CFR Part 37 Hydroxylamine Hydrochloride (5470-11-1)	chemical or chemic porting requiremen 2. Immediate (acur	Delayed (chronic) health hazard n the United States Environmental Protection Agency Toxic cals in excess of the applicable de minimis concentration as ts of section 313 of Title III of the Superfund Amendments and
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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

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Hydroxylamine Hydrochloride (5470-11-1)	
Not listed on the Canadian IDL (Ingredient Disclosure List)	
Water (7732-18-5)	
Not listed on the Canadian IDL (Ingredient Disclosure List)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Other information	: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

NFPA health hazard	
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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: C

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.