

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/03/2013 Revision date: 10/24/2017

Supersedes: 09/22/2015

Version: 1.2

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SECTION 1: Identifica	ation				
1.1. Identification					
Product form		: Mixtures			
Product name		: Hydrochloric A	Acid, 10% v/v		
Product code		: LC15070			
1.2. Recommended u	se and restrictions				
Use of the substance/mixtur			and manufacturing use only.		
Recommended use	•	: Laboratory che			
Restrictions on use		-	rug or household use		
1.3. Supplier					
LabChem Inc Jackson's Pointe Commerce Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473 nfo@labchem.com - www.la	3-0647	, 1010 Jackson's F	Pointe Court		
1.4. Emergency telep	hone number				
Emergency number		: CHEMTREC:	1-800-424-9300 or 011-703-5	27-3887	
SECTION 2: Hazard(s) identification				
·	the substance or m	nixture			
GHS-US classification					
Skin corrosion/irritation	H314	Cause	es severe skin burns and eye c	damage	
Category 1B	11014	Odd30		Jamage	
Serious eye damage/eye rritation Category 1	H318	Cause	es serious eye damage		
Full text of H statements : se	ee section 16				
	unte in chudin a much				
	ents, including prec	autionary statem	ents		
GHS-US labeling Hazard pictograms (GHS-US	C \				
	-,	GHS05	•		
Signal word (GHS-US)		: Danger			
Hazard statements (GHS-U	· · · - · · - ·		s severe skin burns and eye d	amage	
Precautionary statements (C	äHS-US)	P264 - Wash e P280 - Wear p P301+P330+F P303+P361+F clothing. Rinse P305+P351+F lenses, if prese P310 - Immed P363 - Wash e P405 - Store le P501 - Dispos	P331 - IF SWALLOWED: rinse P353 - IF ON SKIN (or hair): R e skin with water/shower P338 - If in eyes: Rinse cautiou ent and easy to do. Continue r iately call a poison center or d contaminated clothing before r pocked up	on, protective clothing, face pro- mouth. Do NOT induce vomit emove/Take off immediately a usly with water for several mini- rinsing loctor/physician reuse apply with local, state and federa	ing Il contaminated utes. Remove contact
2.3. Other hazards wi	hich do not result i	n classification			
Other hazards not contributi classification	ng to the	: None.			
2.4. Unknown acute t	oxicity (GHS US)				
Not applicable					

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	95.66	Not classified
Hydrochloric Acid, 37% w/w	(CAS-No.) 7647-01-0	4.34	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : 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).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and eff	ects (acute and delayed)
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Possible inflammation of the respiratory tract.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhoea.
Chronic symptoms	: Affection/discolouration of the teeth.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Specific hazards arising from the c	hemical	
Fire hazard	: Not flammable.	
Explosion hazard	: Not applicable.	
Reactivity	: Thermal decomposition generates : Corrosive vapors.	
5.3. Special protective equipment and	precautions for fire-fighters	
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.	
Other information	: Not applicable.	
SECTION 6: Accidental release mea	asures	
6.1. Personal precautions, protective e	quipment and emergency procedures	
General measures	: Try to stop release. Dike and contain spill.	
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves. Safety glasses. Protective clothing. Face-shield.	
Emergency procedures	: Evacuate unnecessary personnel.	

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6.1.2.	For emergency responders		
Protecti	ve equipment	: Equip cleanup crew with proper protection.	
Emerge	ncy procedures	: Ventilate area.	
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Notify	v authorities if liquid enters sewers or public waters.	
6.3.	Methods and material for containme	Int and cleaning up	
Method	s 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.			
SECT	ION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precaut	ions 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. Do not breathe mist, vapors, spray.	
Hygiene	emeasures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.	
7.2.	Conditions for safe storage, including	ng any incompatibilities	
Technic	al measures	: Comply with applicable regulations.	
Storage	conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.	

- : metals. cyanides. Strong bases. Strong acids. Incompatible products Incompatible materials : Direct sunlight.
 - : Do not store in corrodable metal.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Packaging materials

Hydrochloric Acid, 37% w/w (7647-01-0)			
ACGIH	ACGIH Ceiling (mg/m ³)	2.98 mg/m ³	
ACGIH	ACGIH Ceiling (ppm)	2 ppm	
OSHA	OSHA PEL (Ceiling) (mg/m ³)	7 mg/m ³	
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm	
IDLH	US IDLH (ppm)	50 ppm	
NIOSH	NIOSH REL (ceiling) (mg/m ³)	7 mg/m ³	
NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm	
Water (7732-18-5)			
Not applicable			

8.2. Appropriate engineering controls

Appropriate engineering controls

- - : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Chemical resistant apron. Face shield. Gloves. Safety glasses. Protective clothing.



Hand protection:

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Wear protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

OFOTION & Physical and shamingly	
SECTION 9: Physical and chemical p	
9.1. Information on basic physical and c	
Physical state	: Liquid : Colorless
Color	
Odor Odor	: Odorless
Odor threshold	: No data available
pH	: ≤ 0.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1-1.1
Molecular mass	: 36.46 g/mol
Solubility	: Soluble in water. Soluble in ethanol. Soluble in methanol.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	
No additional information available	

SECTIC	DN 10: Stability and reactivity
10.1.	Reactivity
Thermal c	lecomposition generates : Corrosive vapors.
10.2.	Chemical stability
Stable un	der normal conditions. Not established.
10.3.	Possibility of hazardous reactions
Reacts vio	plently with (some) bases: release of heat.
10.4.	Conditions to avoid
Direct sur	light. Extremely high or low temperatures.

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erates : Corrosive vapors.
ion
: Skin and eye contact
: Not classified
700 mg/kg
5010 mg/kg
700 mg/kg body weight
5010 mg/kg body weight
≥ 90000 mg/kg
90000 mg/kg body weight
: Causes severe skin burns and eye damage.
pH: ≤ 0.5
: Causes serious eye damage.
pH: ≤ 0.5
: Not classified
: Not classified
Based on available data, the classification criteria are not met
: Not classified
3 - Not classifiable
: Not classified
Based on available data, the classification criteria are not met
: Not classified
: Not classified
: Not classified
: Based on available data, the classification criteria are not met.
. שמשכע טון מימוומטוב טמנמ, נווב טומששווטנון טוונפוומ מופ ווטנ ווופנ.
: Possible inflammation of the respiratory tract.
: Caustic burns/corrosion of the skin.
: Causes serious eye damage.
: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa. Diarrhoea.
: Affection/discolouration of the teeth.

SECTION 12: Ecological Information		
12.1. Toxicity		
Hydrochloric Acid, 37% w/w (7647-01-0)		
LC50 fish 1	282 mg/l (LC50; 96 h)	
EC50 Daphnia 1	< 56 mg/l (EC50; 72 h)	
12.2. Persistence and degradability		
Hydrochloric Acid, 10% v/v		
Persistence and degradability Not established.		

CECTION 10. Ecologie

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Hydrochloric Acid, 37% w/w (7647-01-0)	
Persistence and degradability	Biodegradability: not applicable. No test data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Water (7732-18-5)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Hydrochloric Acid, 10% v/v	
Bioaccumulative potential	Not established.
Hydrochloric Acid, 37% w/w (7647-01-0)	
Log Pow Bioaccumulative potential	0.25 (QSAR) Low potential for bioaccumulation (Log Kow < 4).
· · · · · · · · · · · · · · · · · · ·	Low potential for bioaccumulation (Log Now < 4).
Water (7732-18-5) Bioaccumulative potential	Not established.
2.4. Mobility in soil	
Hydrochloric Acid, 37% w/w (7647-01-0)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
2.5. Other adverse effects	
ffect on the global warming	: No known effects from this product.
WPmix comment	: No known effects from this product.
ther information	: Avoid release to the environment.
ECTION 13: Disposal consideration	ns
3.1. Disposal methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
ECTION 14: Transport information	
Department of Transportation (DOT)	
accordance with DOT	
ransport document description	: UN1789 Hydrochloric acid, 8, II
IN-No.(DOT)	: UN1789
roper Shipping Name (DOT)	: Hydrochloric acid
ransport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: II - Medium Danger
azard labels (DOT)	: 8 - Corrosive
	CORROSVE
OT Packaging Non Bulk (49 CFR 173.xxx)	: 202
OT Packaging Bulk (49 CFR 173.xxx)	: 242

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DOT Special Provisions (49 CFR 172.102)	 A3 - For combination packaging, if glass inner packaging (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packaging. A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging. B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. B15 - Packaging must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N41 - Metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location Other information	 C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel. No supplementary information available.

SECTION 15: Regulatory information			
15.1. US Federal regulations			
Hydrochloric Acid, 10% v/v			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrochloric Acid, 37% w/w		CAS-No. 7647-01-0	4.34%	
Hydrochloric Acid, 37% w/w (7647-01-0)				
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb			
SARA Section 311/312 Hazard Classes	Immediate (acu	te) health hazard		

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations No additional information available

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15.3. US State regulations

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

SECTION 16: Other informatio	n
Revision date	: 10/24/2017
Other information	: None.
Full text of H-phrases: see section 16:	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
Hazard Rating	·
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: C C - Safety glasses, Gloves, Synthetic apron

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