

SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

	Revision Date 01/26/2015	Version 1.2
SECTION 1.Identification		
Product identifier		
Product number	100341	
Product name	Hydroiodic acid 57% extra pure	
Relevant identified uses of t	he substance or mixture and uses advised against	
Identified uses	Chemical production, Chemical for synthesis	
Details of the supplier of the	safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821 United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	1
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

SECTION 2. Hazards identification

GHS Classification

Skin corrosion, Category 1B, H314 Serious eye damage, Category 1, H318 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Danger

Hazard Statements H314 Causes severe skin burns and eye damage.

Precautionary Statements

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.

Product number	100341	Version 1.2
Product name	Hydroiodic acid 57% extra pure	

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

Hazardous ingredients

Chemical Name (Concentration) CAS-No. hydriodic acid (>= 50 % - < 70 %) 10034-85-2 Exact percentages are being wihtheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

Inhalation After inhalation: fresh air. Call in physician.

Skin contact

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. If available swab with polyethylene glycol 400. Call a physician immediately.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, Nausea, Vomiting

Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Fire-fighting measures Extinguishing media

Product number	100341	Version 1.2
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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapors. Fire may cause evolution of: hydrogen iodide

Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress (knock down) gases/vapors/mists with a water spray jet.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® H⁺, Art. No. 101595). Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling Observe label precautions.

Conditions for safe storage, including any incompatibilities

Tightly closed. Protected from light.

Store at +5°C to +30°C (+41°F to +86°F).

Product number	100341	Version 1.2
Product name	Hydroiodic acid 57% extra pure	

(posure limit(s))		
<i>Ingredients</i> Basis	Value	Threshold limits	Remarks
<i>hydriodic acid</i> ACGIH	<i>10034-85-2</i> Time Weighted Average (TWA):	0.01 ppm	Form of exposure: Inhalable fraction and vapor.
protective equ Individual pro Protective clo	asures and appropriate lipment. tection measures thing should be selecte s substances handled.	d specifically fo	tions should be given priority over the use of personal or the workplace, depending on concentration and quantity of esistance of the protective equipment should be inquired at
			kin- protective barrier cream. Wash hands
<i>Eye/face prot</i> Tightly fitting	<i>ection</i> safety goggles		
	stant, impervious glove		ith an approved standard should be worn at assessment indicates this is necessary.
	<i>ive equipment:</i> protective clothing.		
Use a properl indicates this	n vapors/aerosols are g y fitted, air-purifying or is necessary. Respirate	air-fed respirate	or complying with an approved standard if a risk assessmer st be based on known or anticipated exposure levels, the f the selected respirator.
TION 9. Phys	ical and chemical prope	erties	
Physical state	e lic	luid	
Color	lig	Jht brown	
Odor	st	inging	

1 at 13 g/l 68 °F (20 °C)

pН

oduct number oduct name	100341 Hydroiodic acid 57% extra pure	Version 1.2
Melting point	-50 °C (External MSDS)	
Boiling point/boiling range	261 °F (127 °C) at 1,013 hPa	
Flash point	does not flash	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Lower explosion limit	Not applicable	
Upper explosion limit	Not applicable	
Vapor pressure	No information available.	
Relative vapor density	No information available.	
Density	1.70 g/cm³ at 68 °F (20 °C)	
Relative density	No information available.	
Water solubility	at 68 °F (20 °C) soluble	
Partition coefficient: n-	No information available.	
octanol/water Autoignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity, dynamic	No information available.	
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Ignition temperature	not combustible	

SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

Sensitivity to light Sensitive to air. Decomposes on exposure to light.

Product number	100341	Version 1.2
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Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with:

Metals

Gives off hydrogen by reaction with metals.

Exothermic reaction with:

strong alkalis, Strong oxidizing agents

Conditions to avoid

Heating. Exposure to light.

Incompatible materials

Metals Contact with metals liberates hydrogen gas.

Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Eye contact, Skin contact

Acute oral toxicity

Symptoms: Nausea, Vomiting, If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, bronchitis, Lung edema, Symptoms may be delayed.

Skin irritation Mixture causes burns.

Eye irritation Mixture causes serious eye damage. Risk of blindness!

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential

Product number	100341	Version 1.2
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	carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a known or anticipated carcinogen	
	by NTP.	
ACGIH	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a carcinogen or potential	
	carcinogen by ACGIH.	
Further toxicological of After uptake: Diarrhea, shock, Unco Further data: Handle in accordance		
Ingredients		
<i>hydriodic acid</i> No information available.		
SECTION 12. Ecological ir	nformation	
ECTION 12. Ecological ir Ecotoxicity	nformation	
-		
Ecotoxicity	ble. ability	
Ecotoxicity No information availal Persistence and degrada	ble. ability ble. al	
Ecotoxicity No information availal Persistence and degrada No information availal Bioaccumulative potentia	ble. ability ble. al ble.	
Ecotoxicity No information availal Persistence and degrada No information availal Bioaccumulative potentia No information availal Mobility in soil No information availal Additional ecological Biological effects: Harmful effect due to Further information or	ble. ability ble. al ble. ble. <i>information</i> pH shift. Forms corrosive mixtures with water even if diluted.	
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Ecotoxicity No information availal Persistence and degrada No information availal Bioaccumulative potentia No information availal Mobility in soil No information availal Additional ecological of Biological effects: Harmful effect due to Further information or Discharge into the em	ble. ability ble. al ble. ble. <i>information</i> pH shift. Forms corrosive mixtures with water even if diluted. n ecology	

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product number Product name	100341 Hydroiodic acid 57% extra pure	Version 1.2
SECTION 14. Transport inf	formation	
Land transport (DOT)		

UN 1787
HYDRIODIC ACID
8
II
UN 1787
HYDRIODIC ACID
8
II
no
UN 1787
HYDRIODIC ACID
8
II
yes
F-A S-B

SECTION 15. Regulatory information

United States of America

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.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

DEA List I

DEA List II Not listed

Listed *Ingredients* hydriodic acid

10034-85-2

US State Regulations

Massachusetts Right To Know

Ingredients hydriodic acid

Pennsylvania Right To Know

Ingredients hydriodic acid

New Jersey Right To Know

Ingredients hydriodic acid

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

TSCA:	All components of the product are listed in the TSCA-inventory.
DSL:	All components of this product are on the Canadian DSL.
KOREA:	Not in compliance with the inventory

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Labeling

Hazard pictograms



Signal Word

Product number Product name	100341 Hydroiodic acid 57% extra pure	Version 1.2
Danger		

Hazard Statements H314 Causes severe skin burns and eye damage.

Precautionary Statements

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Full text of H-Statements referred to under sections 2 and 3.

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date01/26/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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