



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03-05-2020

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 04-13-2021
 10000001219
 Date of first issue: 04-13-2021

Olin Corporation (OCAP) encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1. IDENTIFICATION

Product name : Hydrochloric acid, < 37%

Other means of identification: No data available

Manufacturer or supplier's details

Company name of supplier : Olin Corporation (OCAP)

Address : 190 Carondelet Plaza, Suite 1530

Clayton MO 63105

Telephone : (423) 336-4850 E-mail address : INFO@OLIN.COM Local Emergency Contact : +1 800-567-7455

Identified uses : For industrial formulation as a food processing agent.

Pharmaceuticals.

Organic Chemical Synthesis
Oil and gas extraction.
Water treatment.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Corrosive to metals : Category 1

Skin corrosion : Category 1B

Serious eye damage : Category 1

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements : Prevention:

P261 Avoid breathing dust/fume/ gas/ mist/ vapours/ spray.

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P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/ eye protection/

face protection.

Response:

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

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IN CASE OF EYE CONTACT, seek medical attention immediately. Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : Hydrochloric acid, < 37%

CAS-No. : 7647-01-0

Synonyms : No data available

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrochloric acid	7647-01-0	>= 30 - < 60

SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air. If not breathing, give artificial respi-

ration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a

medical facility.





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In case	e of skin contact	f r V s	: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contain nated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather ite such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.			
In case	e of eye contact	: II f F	In case of contact, immediately flush eyes with plenty of wate for at least 30 minutes. Remove contact lenses. Suitable emergency eye wash facility should be immediately available.			
If swall	lowed	: [v r	Do not induce vomiting. Give one cup (8 ounces or 240 ml) water or milk if available and transport to a medical facility. Inot give anything by mouth unless the person is fully conscious.			
	mportant symptoms fects, both acute and	r				
	tion of first-aiders	: F a s I				
Notes	to physician	: N C C r N C C R N C C R N C C R N C C R N C C R N C C R N C R S C R N C R S C R N C R S C R N C R S C R N C R S C R N C R S C R N C R S C R N	Maintain adequated May cause asthmodilators, experienced by the property of th	e ventilation and oxygenation of the patient. allike (reactive airways) symptoms. Bronctorants, antitussives and corticosteroids see severe pulmonary edema. For persons ant exposure to this material, consider chest ader observation for 48 - 72 hr. for delayed ry edema. In, intermittent positive pressure breathing, on/CPAP and steroid therapy should be content. Physical exertion may potentiate expog the first 24 - 72 hours. In smay require extended irrigation. Obtain on, preferably from an ophthalmologist. It reat as any thermal burn, after decontaminate to acid fumes or mists may be associated eration of nose, mouth and gums and erotenel. In perties, swallowing may result in of mouth, stomach and lower gastrointestinal usent stricture. Aspiration of vomitus may Suggest endotracheal/esophageal control if		

Hydrochloric acid, < 37%



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : This material does not burn. If exposed to fire from another

source, use suitable extinguishing agent for that fire.

Unsuitable extinguishing

media

: Do not use water.

Specific hazards during fire-

fighting

Product reacts with water. Reaction may produce heat and/or

gases

This reaction may be violent.

Hazardous combustion prod: :

ucts

Fire conditions may cause this product to decompose. Refer

to section 10 - Thermal Decomposition.

Further information : Keep people away. Isolate fire and deny unnecessary entry.

Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not

available.

This material does not burn. Fight fire for other material that is

burning.

Contain fire water run-off if possible. Fire water run-off, if not

contained, may cause environmental damage.

Review the "Accidental Release Measures" and the "Ecologi-

cal Information" sections of this (M)SDS.

Special protective equipment:

for firefighters

Wear positive-pressure self-contained breathing apparatus

(SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote

location.

For protective equipment in post-fire or non-fire clean-up sit-

uations, refer to the relevant sections.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Evacuate area. Keep upwind of spill.

Ventilate area of leak or spill.

Only trained and properly protected personnel must be in-

volved in clean-up operations.

Refer to section 7, Handling, for additional precautionary

measures.

See Section 10 for more specific information.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways

and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Small spills:

Dilute with large quantities of water.

Collect in suitable and properly labeled containers.

Large spills:





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Contain spilled material if possible.

Attempt to neutralize by adding materials such as

Limestone. Lime. Soda ash.

Pump into suitable and properly labeled containers. Contact your supplier for clean-up assistance.

See Section 13, Disposal Considerations, for additional infor-

mation.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not get in eyes, on skin, on clothing.

Do not swallow.

Do not breathe vapour.

Wash thoroughly after handling.

Keep container closed.

Use with adequate ventilation.

See Section 8, EXPOSURE CONTROLS AND PERSONAL

PROTECTION.

Conditions for safe storage : Store in the following material(s):

Plastic.

Polyethylene-lined container.

Natural rubber.

See Section 10 for more specific information.

Store away from incompatible materials. See STABILITY AND

REACTIVITY section.

Additional storage and handling information on this product may be obtained by calling your sales or customer service

contact.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

•	•			
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrochloric acid	7647-01-0	(c)	2 ppm 3 mg/m3	CA AB OEL
		С	2 ppm	CA BC OEL
		С	5 ppm 7.5 mg/m3	CA QC OEL
		С	2 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
Hydrochloric acid	7647-01-0				100 mg/g	

Engineering measures

Use engineering controls to maintain airborne level below

exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or

guidelines, use only with adequate ventilation.





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Local exhaust ventilation may be necessary for some opera-

tions.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or

guidelines, use an approved respirator.

Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne

concentration of the material.

For emergency conditions, use an approved positive-

pressure self-contained breathing apparatus.

Filter type : The following should be effective types of air-purifying respi-

rators: Acid gas cartridge with particulate pre-filter.

Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of

preferred glove barrier materials include: Butyl rubber. Polyethylene. Neoprene. Polyvinyl chloride ("PVC" or "vinyl"). Styrene/butadiene rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Viton. Chlorinated polyethylene. Natural rubber ("latex"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instruc-

tions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.

If exposure causes eye discomfort, use a full-face respirator.

Skin and body protection : Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : White to yellow

Odour : acidic

Odour Threshold : No test data available

pH : <2

Method: Literature

Freezing point : -27 - 57.22 °C

Melting point/range -27 - 57.22 °C





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Boiling point/boiling range : 53 - 107.78 °C

Flash point Method: Not applicable

None

No test data available Evaporation rate

Flammability (solid, gas) Not applicable to liquids

Upper explosion limit / Upper

flammability limit

Method: Literature Not applicable

Lower explosion limit / Lower :

flammability limit

Method: Literature Not applicable

Relative vapour density 11

Method: Literature

1.01 - 1.186 (20 °C) Relative density

Method: Literature

71.6 - 72.6 lb/ft3 (20 °C) Density

Method: Estimated.

Solubility(ies)

Water solubility Miscible in water

Partition coefficient: n-

octanol/water

log Pow: -2.65

Auto-ignition temperature Method: Literature

Not applicable

Decomposition temperature No test data available

No test data available

Viscosity

Viscosity, kinematic 2 m2/s

Method: Calculated.

Explosive properties No data available

Oxidizing properties No data available

Molecular weight 36.46 g/mol

Note: These are the Reference Points for these Physical Properties listed above, unless otherwise noted in their respective Physical Property value information: Boiling Point at 760 mmHg; Evaporation Rate Butyl Acetate = 1; Relative Vapor Density Air = 1; and Relative Density Water = 1.

NOTE: The physical data presented above are typical values and should not be construed as a speci-

fication.

SECTION 10. STABILITY AND REACTIVITY





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Reactivity No data available

Chemical stability Thermally stable at typical use temperatures. Polymerization will not occur.

Possibility of hazardous reac-

Conditions to avoid Vapors can be released at elevated temperatures.

Incompatible materials Heat is generated when mixed with water. Spattering and

boiling can occur.

Avoid contact with strong bases.

Avoid contact with: Sulfuric acid. Amines. Bases. Carbonates. Oxidizers.

Corrosive to some metals.

Contact with common metals can generate flammable hydro-

gen gas.

Hazardous decomposition

products

Decomposition products can include and are not limited to:

Hydrogen chloride.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

Hydrochloric acid:

Acute oral toxicity Remarks: Swallowing may result in gastrointestinal irritation or

ulceration.

Swallowing may result in burns of the mouth and throat.

Assessment: The substance or mixture has no acute oral tox-

icitv

Remarks: Oral LD50 has not been determined due to corro-

sivity.

Remarks: Brief exposure (minutes) to easily attainable con-Acute inhalation toxicity

centrations may cause adverse effects.

Mist may cause severe irritation of the upper respiratory tract

(nose and throat) and lungs.

Vapor may cause severe irritation of the upper respiratory

tract (nose and throat) and lungs.

May cause severe pulmonary edema (fluid in the lungs).

Excessive exposure may cause lung injury.

LC50 (Rat): 1.03 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Assessment: The substance or mixture has no acute dermal Acute dermal toxicity

toxicity

Remarks: The dermal LD50 has not been determined.

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Skin corrosion/irritation

Components:

Hydrochloric acid:

Result : Causes burns.

Remarks : Brief contact may cause severe skin burns. Symptoms may

include pain, severe local redness and tissue damage.

Serious eye damage/eye irritation

Components:

Hydrochloric acid:

Result : Corrosive

Remarks : May cause severe irritation with corneal injury which may re-

sult in permanent impairment of vision, even blindness. Chem-

ical burns may occur.

Vapor may cause lacrimation (tears).

Respiratory or skin sensitisation

Components:

Hydrochloric acid:

Remarks : For skin sensitization:

No relevant information found.

Remarks : For respiratory sensitization:

No relevant information found.

Germ cell mutagenicity

Components:

Hydrochloric acid:

Genotoxicity in vitro : Remarks: No relevant data found.

Carcinogenicity

Components:

Hydrochloric acid:

Remarks : Did not cause cancer in laboratory animals.

An epidemiology study of workers did not show any association between hydrogen chloride exposure and lung cancer.

Reproductive toxicity

Components:

Hydrochloric acid:

Effects on fertility : Remarks: No relevant data found.





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Effects on foetal develop-

ment

Remarks: No relevant data found.

STOT - single exposure

Components:

Hydrochloric acid:

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

Repeated dose toxicity

Components:

Hydrochloric acid:

Remarks : Repeated excessive exposure may cause erosion of teeth and

bleeding and ulceration of nose, mouth and gums.

Aspiration toxicity

Components:

Hydrochloric acid:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung

injury.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hydrochloric acid:

Toxicity to fish : Remarks: May decrease pH of aquatic systems to < pH 5

which may be toxic to aquatic organisms.

Persistence and degradability

Components:

Hydrochloric acid:

Biodegradability : Remarks: Biodegradation is not applicable.

Bioaccumulative potential

Components:

Hydrochloric acid:

Partition coefficient: n- : log Pow: -2.65

octanol/water Remarks: Partitioning from water to n-octanol is not applica-

ole.

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No bioconcentration is expected because of the relatively high

water solubility.

Mobility in soil

Components:

Hydrochloric acid:

Distribution among environmental compartments

Remarks: No data available for assessment due to technical

difficulties with testing.

Other adverse effects

Components:

Hydrochloric acid:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE

MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS

MATERIAL.

THE INFORMATION PRESENTED HERE PERTAINS ONLY

TO THE PRODUCT AS SHIPPED IN ITS INTENDED

CONDITION AS DESCRIBED IN MSDS SECTION: Composi-

tion Information.

All disposal practices must be in compliance with all Federal,

State/Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws

are the responsibility solely of the waste generator.

DO NOT DUMP INTO ANY SEWERS. ON THE GROUND.

OR INTO ANY BODY OF WATER.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1789

Proper shipping name : HYDROCHLORIC ACID

Class : 8 Packing group : II Labels : 8

IATA-DGR

UN/ID No. : UN 1789

Proper shipping name : Hydrochloric acid





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Class 8 Ш Packing group

Labels Corrosive Packing instruction (cargo 855

aircraft)

Packing instruction (passen-

851

ger aircraft)

IMDG-Code

UN number UN 1789

Proper shipping name HYDROCHLORIC ACID

Class 8 Packing group Ш Labels 8 EmS Code F-A, S-B

Marine pollutant no

Remarks Stowage category CAcids

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

UN number UN 1789

Proper shipping name HYDROCHLORIC ACID

Class 8 Packing group Ш Labels 8 **ERG Code** 157 Marine pollutant no

Remarks Terrapure Env#+1800-567-7455 # ERAP 2-1502

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

International Regulations

Montreal Protocol (Ozone Depleting Substances) Not applicable

Rotterdam Convention (Prior Informed Consent) Not applicable

Stockholm Convention (Persistent Organic Pollutants) Not applicable

The components of this product are reported in the following inventories:

All intentional components are listed on the inventory, are CH INV

exempt, or are supplier certified.

DSL All substances contained in this product are listed on the Ca-

nadian Domestic Substances List (DSL) or are not required to

AICS All intentional components are listed on the inventory, are





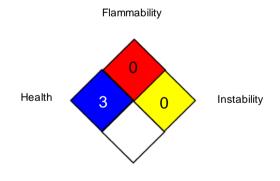
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NZIoC ENCS ISHL KECI PICCS IECSC TCSI TSCA		exempt, or are sue. All intentional corresempt, or are sue.	inponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Imponents are listed on the inventory, are applier certified. Interest and Inventory or are

Canadian lists

Further information

SECTION 16. OTHER INFORMATION

NFPA 704:



Special hazard

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada. British Columbia OEL

No substances are subject to a Significant New Activity Notification.

CA QC OEL : Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants





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ACGIH / C : Ceiling limit

CA AB OEL / (c) : ceiling occupational exposure limit

CA BC OEL / C : ceiling limit CA QC OEL / C : Ceiling

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response: ERG - Emergency Response Guide: GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory: TDG - Transportation of Dangerous Goods: TSCA - Toxic Substances Control Act (United States): UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Verv Persistent and Verv Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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Olin Corporation (OCAP) urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.