# SAFETY DATA SHEET

Revision date 30-October-2020

1. Identification		
Product identifier		
Product Name	ACETIC ACID, 6.0 N SOLUTION	
Other means of identification		
Product Code(s)	A-385	
UN/ID no	UN2790	
Synonyms	None	
Recommended use of the chemica	and restrictions on use	
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		
Emergency Telephone	Chemtrec 1-800-424-9300	

# 2. Hazard(s) identification

# **Classification**

Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

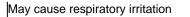
Danger

# Hazard statements

Harmful if inhaled Causes severe skin burns and eye damage



Revision Number 1





Physical state Liquid

Odor Strong and Pungent

# Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area Do not breathe dusts or mists Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

# Precautionary Statements - Response

Immediately call a POISON CENTER or doctor 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 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

# **Precautionary Statements - Storage**

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

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Other information

May be harmful in contact with skin.

# 3. Composition/information on ingredients

# Substance

Not applicable.

# <u>Mixture</u>

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	65.4	*
Acetic acid	64-19-7	34.6	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

# **Description of first aid measures**

General adviceImmediate medical attention is required. Show this safety data sheet to the doctor in<br/>attendance.InhalationRemove to fresh air. If breathing has stopped, give artificial respiration. Get medical

	attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.	

5. Fire-fighting measures			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.		
Explosion data Sensitivity to mechanical impact none.			
Sensitivity to static discharge	none.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.

# Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.	

# 8. Exposure controls/personal protection

# Control parameters

**Exposure Limits** 

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic acid 64-19-7	No data available	10 ppm TWA 25 mg/m³ TWA	50 ppm IDLH

# Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles. Face protection shield.	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.	

# 9. Physical and chemical properties

Information on basic physical and	chemical properties	
Physical state	Liquid	
Appearance	Clear	
Color	colorless	
Odor	Strong and Pungent	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	no data available	None known
Melting point / freezing point	16 °C / 60.8 °F	None known
Boiling point / boiling range	107 °C / 224.6 °F	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	1.044	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Soluble in diethyl ether	None known
	Soluble in Acetone	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Exposure to air or moisture over prolonged periods. Excessive heat.
Incompatible materials	Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

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# 11. Toxicological information

Information on likely routes of exposure

**Product Information** 

Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.		
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.		
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be harmful in contact with skin.		
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.		

Acute toxicity

Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral)

9,566.50 mg/kg

# **Component Information**

Ch	emical name	Oral LD50	Dermal LD50	Inhalation LC50
	Water	90 mL/kg (Rat)	-	-
-	7732-18-5			
l A	Acetic acid	600 mg/kg (Rabbit) [NZ	1060 mg/kg (Rabbit)	11.4 mg/L (Rat)4 h
	64-19-7	CCID]		

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity	Classification based on data available for ingredients. Causes burns. Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns. No information available. No information available.
Reproductive toxicity	No information available.
STOT - single exposure STOT - repeated exposure Target organ effects	May cause respiratory irritation. No information available. respiratory system, Eyes, Skin, Teeth.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

### Ecotoxicity

	Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
	Acetic acid	-	LC50: =75mg/L (96h,	-	EC50: =47mg/L (24h,
	64-19-7		Lepomis macrochirus)		Daphnia magna) EC50:
			LC50: =79mg/L (96h,		=65mg/L (48h, Daphnia
L			Pimephales promelas)		magna)

# Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

### **Component Information**

Chemical name	Partition coefficient
Acetic acid	-0.31
64-19-7	

Other adverse effects

No information available.

# 13. Disposal considerations

# Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.

# 14. Transport information

# DOT

UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Marine Pollutant Description: Emergency Response Guide Number	UN2790 Acetic acid solution 8 III 148, IB3, T4, TP1 Severe Marine Pollutant UN2790, Acetic acid solution, 8, III 153
TDG UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN2790 Acetic acid solution 8 III UN2790, Acetic acid solution, 8, III

### MEX

UN-No	UN2790	
Proper Shipping Name	Acetic acid solution	
Hazard class	8	
Packing Group	III	
Description	UN2790, Acetic acid solution, 8, III	

# ICAO (air)

UN-No:	
Proper Shipping	Name:
Hazard class	
Packing Group:	
Description:	

UN2790 Acetic acid solution 8 III UN2790, Acetic acid solution, 8, III ΙΑΤΑ **UN number** UN2790 Acetic acid solution **Proper Shipping Name:** Transport hazard class(es) 8 Ш Packing group Description: UN2790, Acetic acid solution, 8, III IMDG **UN number** UN2790 Proper shipping name Acetic acid solution Transport hazard class(es) 8 Packing group Ш F-A, S-B EmS-No Marine pollutant NP1 Description UN2790, Acetic acid solution, 8, III RID UN2790 **UN number Proper Shipping Name:** Acetic acid solution Transport hazard class(es) 8 Packing group Ш **Classification code** C3 **Special Provisions** 597, 647 **Description:** UN2790, Acetic acid solution, 8, III Labels 8 ADR **UN number** 2790 **Proper Shipping Name:** Acetic acid solution Transport hazard class(es) 8 Packing group Ш Classification code C3 **Tunnel restriction code** (E) **Special Provisions** 597,647 **Description:** 2790, Acetic acid solution, 8, III, (E) Labels 8 ADN **UN/ID** No UN2790 Proper shipping name Acetic acid solution Transport hazard class(es) 8 Ш **Packing Group Classification code** C3 **Special Provisions** 597, 647 Description UN2790, Acetic acid solution, 8, III Hazard label(s) 8 Limited quantity (LQ) 5 L **Equipment Requirements** PP, EP

# 15. Regulatory information

### International Inventories

TSCA

### Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS AICS	Complies All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

# US Federal Regulations

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic acid 64-19-7	-	-	-	Present

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Acetic acid	5000 lb final RQ	-
64-19-7	2270 kg final RQ	

# US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

# U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA\_ Health hazards 3 Flammability 0 Instability 0 Physical and chemical properties -<u>HMIS\_</u> Health hazards 3 Flammability 0

# 

Ceiling

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

LegendSection 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONTWATWA (time-weighted average)STEL

STEL (Short Term Exposure Limit)

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

Maximum limit value

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date Revision Note

30-October-2020 No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**