

AcidiShine

SAFETY DATA SHEET

Preparation Date: 12-Dec-2017

Revision Date: 28-Jun-2018

Revision Number: 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name AcidiShine

Other means of identification

Item#: 6521

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Sanitizer, Restricted to professional users

Uses advised against All other

Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions
10900 Rue Secant Street
Ville d'Anjou, Quebec H1J 1S5
Tel: (705) 741-3100

Emergency Telephone Number

Chemtrec 1-800-424-9300, (613) 996-6666 (Canutec)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1
Organic peroxides	Type G
Oxidizing liquids	Category 2

Label Elements

DANGER

Hazard statements

Harmful in contact with skin
Causes severe skin burns and eye damage
May cause respiratory irritation

May be corrosive to metals
May intensify fire; oxidizer

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 Keep/Store away from clothing/ combustible materials
 Take any precaution to avoid mixing with combustibles
 Keep only in original container

Precautionary Statements - Response

Specific treatment (see First Aid on this label)
 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

In case of fire: Use CO₂, dry chemical, or foam for extinction

Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed
 Store in corrosive resistant container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight %
Hydrogen peroxide	7722-84-1	6
Acetic acid	64-19-7	10 - 30*
Peracetic acid	79-21-0	5.2
Methane sulfonic acid	75-75-2	7 - 13*

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

4. FIRST AID MEASURES

Description of first-aid measures

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Consult a physician.
Inhalation	Move to fresh air. Give oxygen or artificial respiration if needed. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Corrosive. The product causes burns of eyes, skin and mucous membranes. Irritating to respiratory system. Oxidizing agent. Contact with combustible material may cause fire.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Carbon dioxide (CO₂), Foam.

Unsuitable Extinguishing Media

dry chemical

Specific hazards arising from the chemical

Decomposition will release oxygen which may increase the intensity of a fire. The product causes burns of eyes, skin and mucous membranes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health hazards 3

Flammability 1

Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes. In case of insufficient ventilation, wear suitable respiratory equipment. For personal protection see section 8.

Environmental Precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). DO NOT use combustible materials such as sawdust. Drying of this product on clothing or combustible materials may cause fire. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Keep away from clothing and other combustible materials. Wear personal protective equipment. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a receptacle equipped with a vent. Store in upright position only. Keep away from direct sunlight. Do not store near combustible materials. Do not store on wooden pallets. Store at temperatures not exceeding 30°C/ 86°F. Store locked up. Keep container tightly closed. Store in corrosion resistant container with a resistant inner liner.

Incompatible Materials dirt, combustible material, organic materials, reducing agents, bases, light metals (e.g. aluminum, copper, brass, zinc galvanized)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Hydrogen peroxide 7722-84-1	TWA: 1 ppm TWA: 1.4 mg/m ³	TWA: 1 ppm	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³
Acetic acid 64-19-7	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm TWA: 25 mg/m ³ STEL: 15 ppm STEL: 37 mg/m ³

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Eye/face Protection Goggles. Face-shield.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Pungent
Appearance	Clear Colorless	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ • Method</u>
pH	2 (1%)	No data available
Melting point/freezing point	No data available	No data available
Boiling Point/Range	No data available	No data available
Flash Point	No data available	No data available
Evaporation rate	No data available	No data available
Flammability (solid, gas)	No data available	No data available
Flammability Limit in Air	No data available	No data available

Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor Pressure	No data available	No data available
Vapor Density	No data available	No data available
Specific Gravity	1.13	No data available
Water Solubility	No data available	No data available
Partition coefficient: n-octanol/water	No data available	No data available
Autoignition Temperature	No data available	No data available
Decomposition temperature	No data available	No data available
Viscosity of Product	No data available	No data available

Other information

Density 9.4 lb/gal

10. STABILITY AND REACTIVITY

Reactivity

May react with other chemicals. Do not mix with other chemicals except as directed on label.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None known

Conditions to Avoid

Extremes of temperature and direct sunlight. Protect from contamination.

Incompatible Materials

dirt, combustible material, organic materials, reducing agents, bases, light metals (e.g. aluminum, copper, brass, zinc galvanized)

Hazardous decomposition products

Decomposition will release oxygen which may increase the intensity of a fire.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes burns.
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts.
Inhalation	May cause irritation of respiratory tract.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	6,053.00
ATEmix (dermal)	1,142.00
ATEmix (inhalation-dust/mist)	9.90

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 4060 mg/kg (Rat)	= 2 g/m ³ (Rat) 4 h
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h
Peracetic acid 79-21-0	9-203 mg/kg (Rat)	12000 mg/kg (Rat) 56-226 mg/kg (Rabbit)	76 -> 241 mg/l (rat)
Methane sulfonic acid 75-75-2	= 200 mg/kg (Rat) = 380 mg/kg (Rat)	= 200 mg/kg (Rabbit)	-

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

Sensitization	None known
Mutagenic effects	None known
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive Effects	None known
Developmental Effects	None known.
Teratogenicity	None known.
STOT - single exposure	Irritating to respiratory system.
STOT - repeated exposure	None known.
Target Organ Effects	None known.
Neurological Effects	None known.
Other Adverse Effects	None known.
Aspiration Hazard	None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Hydrogen peroxide 7722-84-1	2.5: 72 h <i>Chlorella vulgaris</i> mg/L EC50	18 - 56: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 16.4: 96 h <i>Pimephales promelas</i> mg/L LC50 10.0 - 32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	7.7: 24 h <i>Daphnia magna</i> mg/L EC50 18 - 32: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Acetic acid 64-19-7	> 300 mg/l	> 300 mg/l	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	47: 24 h <i>Daphnia magna</i> mg/L EC50 65: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Peracetic acid 79-21-0	EC50 = 0.18-1.0 mg/l (48h)	LC50 = 0.9-2.0 mg/l (96h)	-	EC50 = 0.5-0.1 mg/l (48h)
Methane sulfonic acid 75-75-2	-	-	-	12: 48 h <i>Daphnia pulex</i> mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Method	Should not be released into the environment. Dispose of in accordance with local regulations.
Contaminated Packaging	Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION**DOT**

UN-No	3149
Proper Shipping Name	Hydrogen peroxide and Peroxyacetic acid mixture, stabilized
Hazard Class	5.1 (8)
Packing Group	II

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS)	not applicable
Persistent Organic Pollutants	not applicable
The Rotterdam Convention	not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Preparation Date:	12-Dec-2017
Revision Date:	28-Jun-2018
Revision Note:	No information available.

Disclaimer

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End of Safety Data Sheet