

AcidiShine (DCS)

SAFETY DATA SHEET

Preparation Date: 02-Nov-2015

Revision Date: 21-Apr-2016

Revision Number: 3

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

Product Identifier

Product Name AcidiShine (DCS)

Other means of identification

Item#: 4398

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Sanitizer, Restricted to professional users

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions
11100 N. Congress Ave.
Kansas City, MO 64153
Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Emergency Overview

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

**Appearance** Clear Colorless**Physical state** Liquid**Odor** Pungent**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/sparks/open flames/hot surfaces. — 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/physician
 Specific treatment (see First Aid on this label)

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/physician.

Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician 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

Chemical Name	CAS-No	Weight %
Hydrogen peroxide	7722-84-1	1 - 10
Acetic acid	64-19-7	20 - 30
Peracetic acid	79-21-0	1 - 10
Methane sulfonic acid	75-75-2	10 - 20

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

4. FIRST AID MEASURES

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 Centre immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

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 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. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive 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	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³	75 ppm
Acetic acid 64-19-7	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm TWA: 25 mg/m ³	50 ppm
Peracetic acid 79-21-0	STEL: 0.4 ppm		

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
Property	Values	Remarks/ Method	
pH	2 (1%)		
Melting point/freezing point	No information available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific Gravity	1.13		

Water Solubility	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity of Product	No information available

Other information

Density	9.4 lb/gal
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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

<u>Principal Routes of Exposure</u>	Eye contact, Skin contact, Ingestion, Inhalation
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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.

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	Not Listed	Not Listed

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not classifiable

Reproductive Effects	None known.
STOT - single exposure	Irritating to respiratory system.
STOT-repeated exposure	None known.
Aspiration Hazard	None known.

Numerical measures of toxicity

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide 7722-84-1	= 801 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	= 380 mg/kg (Rat) = 200 mg/kg (Rat)	= 200 mg/kg (Rabbit)	No data available

0% of the mixture consists of ingredient(s) of unknown toxicity

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 Chlorella vulgaris mg/L EC50	16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static	No data available	18 - 32: 48 h Daphnia magna mg/L EC50 Static 7.7: 24 h Daphnia magna mg/L EC50
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	65: 48 h Daphnia magna mg/L EC50 Static 47: 24 h Daphnia magna mg/L EC50
Peracetic acid 79-21-0	EC50 = 0.18-1.0 mg/l (48h)	LC50 = 0.9-2.0 mg/l (96h)	No data available	EC50 = 0.5-0.1 mg/l (48h)
Methane sulfonic acid 75-75-2	No data available	No data available	No data available	12: 48 h Daphnia pulex 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

3098

Proper Shipping Name

Oxidizing liquid, corrosive, n.o.s. (Methanesulfonic acid, Hydrogen peroxide and Peroxyacetic acid mixture, stabilized)

Hazard Class

5.1 (8)

Packing Group

II

15. REGULATORY INFORMATION**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen peroxide 7722-84-1	X	X	X
Acetic acid 64-19-7	X	X	X
Peracetic acid 79-21-0	X	X	X
Methane sulfonic acid 75-75-2	X	Not Listed	Not Listed

U.S. EPA Label information

EPA Pesticide registration number 4959-1-82882

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide label

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER: CORROSIVE. Fatal if absorbed through skin. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear overalls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and gloves. Wear protective eyewear (goggles, face shield, or safety glasses). Remove contaminated clothing and wash clothing before reuse.

16. OTHER INFORMATION

Preparation Date: 02-Nov-2015

Revision Date: 21-Apr-2016

Revision Note: None

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 SDS