

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/09/2013 Version: 1.0

Product form : Moture Product form : Aceic Acid, 10% w/v (1+9) Product code : LC10190 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance of the substance or mixture and uses advised against Lab.Chem Inc Jackschns Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zeinengen, PA 16023 - USA T 147-289-2023 - T24 Ar7-0647 Indexession non - www.labchem.com Zeinengen velophone number Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 SECTION 2: Hazards identification Statistication of the substance or mixture GHS-US classification Sin Cort, IC H314 Epe Dam, 1 Epe Dam, 1 Plazard pictograms (GHS-US) Erecutionary statements (GHS-US) Erecutionary statements (GHS-US) Presed: Wash conserves eakin horms and eye damage Presed: Wash conserves eakin horms and eye damage Presed: Wash exposed skin horocouphily after handling P280 - Wash exposed skin horocouphily after handling P280 - Wash exposed skin horocouphily after handling P280 - Wash exposed skin horocouphily after handling		
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3.1. Substance	No data available	
3.1. Substance	SECTION 3: Composition/informati	ion on ingredients
	Not applicable	

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Full text of H-phrases: see section 16

3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Water		(CAS No) 7732-18-5	89.66	Not classified
Acetic Acid		(CAS No) 64-19-7	10.34	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318
SECTION 4: First aid measures				
4.1. Description of first aid measures	i			
First-aid measures general		r give anything by mouth to an unconscient withe label where possible).	ous person. If yo	ou feel unwell, seek medical advic
First-aid measures after inhalation		re fresh air breathing. Allow the victim to on comfortable for breathing. Immediate		
First-aid measures after skin contact		ove/Take off immediately all contaminate diately call a POISON CENTER or docto		e skin with water/shower.
First-aid measures after eye contact		e cautiously with water for several minute ontinue rinsing. Immediately call a POIS		
First-aid measures after ingestion		e mouth. Do NOT induce vomiting. Imme r/physician.	diately call a PC	DISON CENTER or
4.2. Most important symptoms and e	ffects, both	acute and delayed		
Symptoms/injuries	: Caus	es severe skin burns and eye damage.		
Symptoms/injuries after eye contact	: Caus	es serious eye damage.		
4.3. Indication of any immediate med	ical attentio	n and special treatment needed		
Obtain medical assistance.				
SECTION 5: Firefighting measures	s			
5.1. Extinguishing media				
Suitable extinguishing media	· Foar	n. Dry powder. Carbon dioxide. Water sp	ray Sand	
Unsuitable extinguishing media		ot use a heavy water stream.		
5.2. Special hazards arising from the Reactivity		nal decomposition generates : Corrosive	vapours	
	. men	har decomposition generates . Collosive		
5.3. Advice for firefighters				
Firefighting instructions	chem	vater spray or fog for cooling exposed co ical fire. Avoid (reject) fire-fighting water	to enter enviror	iment.
Protection during firefighting	: Do no	ot enter fire area without proper protectiv	e equipment, in	cluding respiratory protection.
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
6.1.1. For non-emergency personnel				
Protective equipment	: Safet	y glasses. Gloves. Protective clothing.		
Emergency procedures		uate unnecessary personnel.		
6.1.2. For emergency responders				
Protective equipment		cleanup crew with proper protection.		
Emergency procedures	: Venti	late area.		

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections 6.4.

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe mist, vapours, spray.
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong oxidizers. metals. Strong bases.
Incompatible products	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Acetic Acid (64-19-7)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	10 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. **Exposure controls** Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Personal protective equipment : Avoid all unnecessary exposure. Hand protection : Wear protective gloves. Eye protection : Chemical goggles or face shield. Skin and body protection : Wear suitable protective clothing. Respiratory protection : Wear appropriate mask. Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	
Physical state	: Liquid
Colour	: Colourless.
Odour	: Vinegar odour.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.01 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available

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Log Kow: No data availableViscosity, kinematic: 1.2 cStViscosity, dynamic: No data availableExplosive properties: No data available	
Viscosity, dynamic : No data available Explosive properties : No data available	
Explosive properties : No data available	
Oxidising properties : No data available	
Explosive limits : No data available	
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability	
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Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. metals. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Acetic Acid, 10% v/v (1+9)	
LD50 oral rat	10251 mg/kg
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage.

SECTION 12: Ecolog	gical information

12.1. Toxicity

Acetic Acid (64-19-7)		
LC50 fishes 1	75 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 1	47 mg/l (24 h; Daphnia magna; Not neutralized)	
EC50 other aquatic organisms 1	> 5000 mg/l (5 h; Activated sludge)	
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Acetic Acid (64-19-7)	
LC50 fish 2	94 mg/l (96 h; Oryzias latipes)
EC50 Daphnia 2	95 mg/l (24 h; Daphnia magna; Static system)
TLM fish 1	100 ppm (96 h; Carassius auratus)
Threshold limit algae 1	90 mg/l (192 h; Microcystis aeruginosa; Neutralized)
Threshold limit algae 2	4000 mg/l (192 h; Scenedesmus quadricauda; Neutralized)
2.2. Persistence and degradability	
Acetic Acid, 10% v/v (1+9)	
Persistence and degradability	Not established.
Acetic Acid (64-19-7)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O ² /g substance
Chemical oxygen demand (COD)	1.03 g O ² /g substance
ThOD	1.07 g O ² /g substance
BOD (% of ThOD)	0.56 - 0.69 % ThOD
Water (7732-18-5)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Acetic Acid, 10% v/v (1+9)	
Bioaccumulative potential	Not established.
Acetic Acid (64-19-7)	
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
·	
Acetic Acid (64-19-7)	0.000 N/m (00.%0)
Surface tension	0.028 N/m (20 °C)
2.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 12: Dispessel consideration	
SECTION 13: Disposal consideration	15
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
n accordance with DOT	
ransport document description	: UN2790 Acetic acid solution (with more than 10 percent and less than 50 percent acid, by mass)
	8, III
N-No.(DOT)	: 2790
OT NA no.	: UN2790
OT Proper Shipping Name	: Acetic acid solution
	with more than 10 percent and less than 50 percent acid, by mass
epartment of Transportation (DOT) Hazard	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Classes	
lazard labels (DOT)	: 8 - Corrosive substances

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	: III - Minor Danger
	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
	: 203
	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	:
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
SECTION 15: Regulatory information	
SECTION 15: Regulatory information	
SECTION 15: Regulatory information 15.1. US Federal regulations	Immediate (acute) health hazard
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7)	
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substant	nces Control Act) inventory
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7)	
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SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substat RQ (Reportable quantity, section 304 of EPA's List of Lists) :	nces Control Act) inventory 5000 lb
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substat RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substat 15.2. International regulations	nces Control Act) inventory 5000 lb
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substate RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substate 15.2. International regulations CANADA	nces Control Act) inventory 5000 lb
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substate RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substate 15.2. International regulations CANADA Acetic Acid, 10% v/v (1+9)	nces Control Act) inventory 5000 lb nces Control Act) inventory
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substate RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substate 15.2. International regulations CANADA	nces Control Act) inventory 5000 lb
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substate RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substate 15.2. International regulations CANADA Acetic Acid, 10% v/v (1+9)	nces Control Act) inventory 5000 lb nces Control Act) inventory Class E - Corrosive Material
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substal RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substal 15.2. International regulations CANADA Acetic Acid, 10% v/v (1+9) WHMIS Classification	nces Control Act) inventory 5000 lb nces Control Act) inventory
SECTION 15: Regulatory information 15.1. US Federal regulations Acetic Acid, 10% v/v (1+9) SARA Section 311/312 Hazard Classes Acetic Acid (64-19-7) Listed on the United States TSCA (Toxic Substan RQ (Reportable quantity, section 304 of EPA's List of Lists) : Water (7732-18-5) Listed on the United States TSCA (Toxic Substan 15.2. International regulations CANADA Acetic Acid, 10% v/v (1+9) WHMIS Classification Acetic Acid (64-19-7)	nces Control Act) inventory 5000 lb nces Control Act) inventory Class E - Corrosive Material Class B Division 3 - Combustible Liquid

EU-Regulations

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

NFPA health hazard	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 	0
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: H

SDS US (GHS HazCom 2012)

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