

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/11/2013 Version: 1.0

CECTION 4. Identification of the	eterrestricture and of the common durateries.				
	stance/mixture and of the company/undertaking				
1.1. Product identifier					
Product form	: Mixture				
Product name	: Acetic Acid, 6.0N (6.0M)				
Product code	: LC10400				
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against				
Use of the substance/mixture	: For laboratory and manufacturing use only.				
1.3. Details of the supplier of the safety	data sheet				
LabChem Inc Jackson's Pointe Commerce Park Building 1000, Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	, 1010 Jackson's Pointe Court				
1.4. Emergency telephone number					
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887				
SECTION 2: Hazards identification					
2.1. Classification of the substance or m	ixture				
GHS-US classification					
Skin Corr. 1C H314 Eye Dam. 1 H318					
2.2. Label elements					
GHS-US labelling					
	GHS05				
Signal word (GHS-US)	: Danger				
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage				
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapours, spray P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, eye protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations 				
2.3. Other hazards					
Other hazards not contributing to the classification	: None.				
2.4. Unknown acute toxicity (GHS-US)					
No data available					
SECTION 3: Composition/informatio	n on ingredients				
3.1. Substance					

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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	65.42	Not classified
Acetic Acid	(CAS No) 64-19-7	34.58	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).			
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.			
First-aid measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. 			
First-aid measures after eye contact	 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. 			
First-aid measures after ingestion	 Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. 			
4.2. Most important symptoms and effe	cts, both acute and delayed			
Symptoms/injuries	: Causes severe skin burns and eye damage.			
Symptoms/injuries after eye contact	: Causes serious eye damage.			
4.3. Indication of any immediate medica	I attention and special treatment needed			
Obtain medical assistance.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media	- Foom Dry nounder Carbon diavide Water array Cond			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from the su				
Reactivity	: Thermal decomposition generates : Corrosive vapours.			
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release mea				
	uipment and emergency procedures			
6.1.1. For non-emergency personnel	Orfete else en Olevers Desta d'un staticien			
Protective equipment	: Safety glasses. Gloves. Protective clothing.			
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection.			
Emergency procedures : Ventilate area.				
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.				

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

Methods for cleaning up

See Heading 8. Exposure controls and personal protection.

Methods and material for containment and cleaning up

6.3.

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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 an	d chemical properties
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	: 1.04 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available

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ccording to	p Federal Register / Vol. 77, No. 58 /	Monday, March 26, 2012 / Rules and Regulations	
Log Kow		: No data available	
Viscosity	, kinematic	: 1.7 cSt	
/iscosity	r, dynamic	: No data available	
Explosive	e properties	: No data available	
Oxidising	g properties	: No data available	
Explosive	e limits	: No data available	
9.2.	Other information		
√o additi	ional information available		
SECTIO	ON 10: Stability and rea	ctivity	
0.1.	Reactivity		
Thermal	decomposition generates : Corr	osive vapours.	
10.2.	Chemical stability		
Stable ur	nder normal conditions.		
0.3.	Possibility of hazardous rea	tions	
Reacts vi	iolently with (some) bases: relea	ise of heat.	
0.4.	4. Conditions to avoid		
Direct su	inlight. Extremely high or low ter	iperatures.	
0.5.	Incompatible materials		
Strong ox	xidizers. metals. Strong bases.		
10.6.	Hazardous decomposition p	roducts	

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

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: Ecological 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)		
LC50 fish 2	94 mg/l (96 h; Oryzias latipes)	
EC50 Daphnia 2 95 mg/l (24 h; Daphnia magna; Static system)		
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Acetic Acid (64-19-7)			
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, 6.0N (6.0M)	Nationtablished		
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, 6.0N (6.0M)			
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)			
Surface tension	0.028 N/m (20 °C)		
2.5. Other adverse effects			
ther information	: Avoid release to the environment.		
ECTION 13: Disposal consideration	ons		
3.1. Waste treatment methods			
aste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
cology - waste materials	: Avoid release to the environment.		
ECTION 14: Transport informatio	n		
accordance with DOT			
	LINI2700 Apotio acid adjution (with more than 10 percent and less than 50 percent acid, by mass)		
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		
asses			
azard labels (DOT)	: 8 - Corrosive substances		
· · /			
	8		
acking group (DOT)	: III - Minor Danger		
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DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite			
	 (31HZ1 and 31HA2, 31HB2, 31HD2, 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			
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203			
DOT Packaging Bulk (49 CFR 173.xxx)	: 242			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L			
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				
15.1. US Federal regulations				
Acetic Acid, 6.0N (6.0M)				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			
Acetic Acid (64-19-7)				
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory			
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb			
Water (7732-18-5)				
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory			
15.2. International regulations				
CANADA				
Acetic Acid, 6.0N (6.0M)				
WHMIS Classification	Class E - Corrosive Material			
Acetic Acid (64-19-7)				
WHMIS Classification				
Water (7732-18-5)				

WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

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

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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

SECT	SECTION 16: Other information				
Other in	nformation	: None.			
Full tex	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.
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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