

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/19/2015

Neutron<sup>®</sup>Pharmachemical Co.

Revision date: 11/07/2017

Supersedes: 11/07/2017

Version: 1.2

Manufacturer of Laboratory Chemical & Pharmace	utical Materials		
SECTION 1: Identifica	tion		
1.1. Identification			
Product form		: Substance	
Substance name		: Lactic Acid, 85% w/w, ACS	
Chemical name		: 2-Hydroxypropanoic acid	
CAS-No.		: 50-21-5	
Product code		: 1.3450	
Formula		: C3H6O3	
	an and vestilations		
1.2. Recommended us Use of the substance/mixture	se and restrictions	: For laboratory and manufacturing use only.	
	;		
Recommended use		: Laboratory chemicals	
Restrictions on use		: Not for food, drug or household use	
1.3. Supplier			
NEUTRON PHARMACHEM	ICAL CO		
98, 9th Floor, Borjsaz Buildir T 021-66906732-3 - F 021-6 info@neutronpharmachemic www.neutronpharmachemica	6581408 <u>al.com</u> -	n, Iran.	
1.4. Emergency teleph	none number		
Emergency number		: CHEMTREC: 125	
GHS-US classification Corrosive to metals Category 1 Skin corrosion/irritation Category 1C Serious eye damage/eye	H290 H314 H318	May be corrosive to metals Causes severe skin burns and eye dam Causes serious eye damage	age
irritation Category 1 Full text of H statements : se	e section 16		
2.2. GHS Label eleme	nts, including preca	autionary statements	
GHS-US labeling			
Hazard pictograms (GHS-US	8)	GHS05	
Signal word (GHS-US)		: Danger	
Hazard statements (GHS-US	8)	<ul> <li>H290 - May be corrosive to metals</li> <li>H314 - Causes severe skin burns and eye dama</li> </ul>	age
Precautionary statements (G	HS-US)	: P234 - Keep only in original container P260 - Do not breathe mist P264 - Wash exposed skin thoroughly after han P280 - Wear protective gloves, protective clothin P301+P330+P331 - IF SWALLOWED: rinse mo P303+P361+P353 - IF ON SKIN (or hair): Remo clothing. Rinse skin with water/shower P305+P351+P338 - If in eyes: Rinse cautiously lenses, if present and easy to do. Continue rinsi P310 - Immediately call a poison center or doctor P363 - Wash contaminated clothing before reus P390 - Absorb spillage to prevent material dama P405 - Store locked up P406 - Store in corrosive resistant container wit	ng, eye protection, face protection buth. Do NOT induce vomiting ove/Take off immediately all contaminated with water for several minutes. Remove contac ing or/physician se age
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P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing

2.3.					
	Dther hazards not contributing to the       : None under normal conditions.         lassification				
2.4.	2.4. Unknown acute toxicity (GHS US)				
Not appl	licable				
SECTI	ON 3: Composition/Information	n on ingredients			
3.1.	Substances				
Substan	ce type	: Mono-constituent			
Name			Product identifier	%	GHS-US classification
Lactic A	vcid, 85% w/w, ACS nstituent)		(CAS-No.) 50-21-5	85	Met. Corr. 1, H290 Skin Corr. 1C, H314 Eye Dam. 1, H318
Full text	of hazard classes and H-statements : se	e section 16			
3.2.	Mixtures				
Not appl	licable				
	ON 4: First-aid measures				
4.1.	Description of first aid measures				
First-aid	measures general	: Never give anything by mou advice (show the label wher		erson. If y	ou feel unwell, seek medical
First-aid	measures after inhalation	: Allow victim to breathe fresh rest in a position comfortabl doctor/physician.			nove victim to fresh air and keep at a poison center or
First-aid	measures after skin contact	: Remove/Take off immediate Immediately call a poison ce			se skin with water/shower.
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 induc	e vomiting. Immediatel	/ call a po	ison center or doctor/physician.
4.2.	Most important symptoms and effect	ts (acute and delayed)			
Symptor	ms/effects	: Causes severe skin burns a	nd eye damage.		
Symptor	ns/effects after inhalation	: Corrosion of the upper respi	ratory tract.		
Symptor	ms/effects after skin contact	: Caustic burns/corrosion of the	he skin.		
Symptor	ms/effects after eye contact	: Causes serious eye damage	Э.		
Symptor	ms/effects after ingestion	: Burns. Nausea. Vomiting.			
4.3.	Immediate medical attention and spe	ecial treatment, if necessary			
Treat sy	mptomatically. Obtain medical assistance	e. Doctor: gastric lavage is not r	ecommended.		
SECTI	ON 5: Fire-fighting measures				
5.1.	Suitable (and unsuitable) extinguish	ing media			
Suitable	extinguishing media	: Foam. Dry powder. Carbon	dioxide. Water spray. S	and.	
Unsuitable extinguishing media : Do not use a heavy water stream.					
5.2.	Specific hazards arising from the ch	emical			
Reactivity : Thermal decomposition generates : Corrosive vapors.					
5.3. Special protective equipment and precautions for fire-fighters					
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.					
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.					
SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
6.1.1.					
		· Protective goggles Protective	ve clothing Gloves Fac	o-shiald	
Protective equipment Emergency procedures		<ul> <li>Protective goggles. Protective clothing. Gloves. Face-shield.</li> <li>Evacuate unnecessary personnel.</li> </ul>			
Lineigel		. Evacuate uninecessary pers	onnoi.		

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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 wate	ers. Notify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for co	ontainment 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. Absorb spillage to prevent material damage.	
6.4. Reference to other sections	\$	
See Heading 8. Exposure controls and	personal protection.	
SECTION 7: Handling and sto	rage	
7.1. Precautions for safe handling	ng	
Additional hazards when processed	: May be corrosive to metals.	
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 vapor. Do not breathe mist.	
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage	, including any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storago conditions	· Koop container closed when not in use	

SECT	<b>TON 7: Handling and storage</b>	
7.1.	Precautions for safe handling	
Additio	nal hazards when processed	: May be corrosive to metals.
Precau	tions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking c smoking and when leaving work. Provide good ventilation in process area to prevent forr of vapor. Do not breathe mist.
Hygien	e measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse
7.2.	Conditions for safe storage, inclu	Iding any incompatibilities
Techni	cal measures	: Comply with applicable regulations.
Storag	e conditions	: Keep container closed when not in use.
Incomp	patible products	: Strong bases. Strong oxidizers.
Incomp	patible materials	: Sources of ignition. Direct sunlight.
Packag	ging materials	: Store in a corrosion resistant container with a resistant inner liner.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Chemical resistant apron. Face shield. Gloves. Protective clothing. Safety glasses.



#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or face shield

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

Respiratory protection not required in normal conditions

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### Other information:

Do not eat, drink or smoke during use.

9.1.       Information on basic physical and chemical properties         Physical state       :       Liquid         Color       :       Colourless to light yellow         Odor       :       characteristic Acrid         Odor       :       characteristic Acrid         Odor threshold       :       2 (1% aqueous solution)         Melting point       :       2 (1% aqueous solution)         Presing point       :       18.8 °C         Freezing point       :       19.2 °C         Relative exportion rate (butyl acetate)       :       10.5 °C         Freezing point       :       10.5 °C         Freezing point       :       No data available         Palative vaporation rate (butyl acetate)       :       No data available         Vapor pressure       :       No data available         Palative vapor donsity at 20 °C       :       1         Relative vapor donsity at 20 °C       :       No data available         Subolity       :       Soluble in water. Soluble in ethanol.	SECTION 9: Physical and chemical	nronartias	
Physical state         : Liquid           Color         : Coloruloss to light yellow           Odor         : characterisic And           Odor         : No data available           Ph         : 2 (1% aupeous soluton)           Melting point         : 18.8 °           Freezing point         : No data available           Boling point         : 12.2 °C           Relative expontion rate (bulyl acetate=1)         : No data available           Relative expontion rate (bulyl acetate=1)         : No data available           Relative expontion rate (bulyl acetate=1)         : No data available           Relative expontion rate (bulyl acetate=1)         : No data available           Relative expontion rate (bulyl acetate=1)         : No data available           Vapor pressure         : O Ko data available           Relative expontion rate (bulyl acetate=1)         : No data available           Vapor pressure         : O Ko data available           Vapor pressure         : Soluble in expontion tentano.           Log Pow         : No data available           Viscosity, kinemalio         : No data available           Viscosity, kinemalio         : No data available           Viscosity, kinemalion available         : No data available           Viscosity, kinemidennal undiruonas <th></th> <th></th>			
Color         c Coloruses to light yellow           Odor         c No data available           Odor threshold         c No data available           PH         c 2 (1% aqueous solution)           Meltrap point         c 18.8 °C           Freezing point         c No data available           Boling point         c 12 °C           Relative evaporation rate (obujt acetate=1)         c No data available           Planmability (solid, gas)         c No ntammable.           Vapor pressure         c No Rata available           Planmability (solid, gas)         c No Rata available           Relative vapor density at 0 °C         c + 1           Relative vapor density at 0 °C         c + 1           Relative vapor density at 0 °C         c + 1           Relative vapor density at 0 °C         c + 1           Relative vapor density at 0 °C         c + 1           Relative vapor density at 0 °C         c + 1           Solubility         c + 0.7           Auto-ligniton temperature         i No data available           Cobcomposition temperature         i No data available           Viscosity, dynamic         c No data available           Suboutor termation         i No data available           Suboutor termation         c No data available			
Ödor         : haracteristic Adrid           Ödor threshold         : No data available           Odor threshold         : 2 (1% aqueous solution)           Metitor point         : 16.8 °           Freeing point         : 16.8 °           Freeing point         : 122 °           Bain point         : 122 °           Flash point         : 123 °           Flash point         : 123 °           Flash point         : 128 °           Mode vapor density at 20 °C         : 1.249           Meleoular mass         : 9.00 ginol           Solubliny         : 2.50 ble in ethanol.           Od or threshould         : No data available           Meleoular mass         : 9.02 °           Auto-ignition temperature         : No data available           Viscosity, kinematic         : No data available           Viscosity, dynamic         : No data available           Viscosity, dynamic         : No data available           Viscosity, dynamic         : No data available           Subosinder manal conditions.         : No data ava	-	•	
Odor threshold     : No data available       pH     :: 2 (1% aqueous solution)       Welling point     :: 16.8 °C       Freezing point     :: 12 °C       Bash point     :: 12 °C       Rash point     :: 10 °C °			
pH         :         2 (1% aqueous solution)           Meiting point         :         15.8 °C           Freaing point         :         No data available           Boling point         :         12.2 °C           Flash point         :         No data available           Vapor pressure         :         0.0.8 gmol           Solubility         :         Solubile in welter. Soluble in ethanol.           Log Pow         :         No data available           Vaporatine immerature         :         No data available           Vaporatine immerature         :         No data available           Vaporating properies         :         No data available           Vaporature         :         No data available           Vaporature         :         No data available           Vaporature         :         No data availabl			
Metting point         1 6.8 °C           Freezing point         No data available           Boiling point         1 22 °C           Flash point         1 13 °C           Relative evaporation rate (butyl acetate-1)         No data available           Flammability (solid, gas)         No flammable.           Vapor pressure         0 KPa @ 20 °C           Relative density at 20 °C         > 1           Relative density         2 .0 °C           Relative density at 20 °C         > 0.0 8 grindi           Solubility         Soluble in water. Soluble in ethanol.           Log Pow         = 0.7           Auto-ignition temperature         No data available           Decomposition temperature         No data available           Suposing inproperies         No data available           Suposing inproperies         No data available           Suposing inproperies         No data available           Suposiny danomation available </td <td></td> <td></td>			
Freeing point         N data available           Boiling point         12 2 °C           Flash point         13 °C           Relative exaporation rate (butyl acetate=1)         N data available           Flammability (solid gas)         N on flammabile.           Vapor pressure         N PA @ 20 °C           Relative density 420 °C         > 1           Relative density 420 °C         > 1           Relative density 420 °C         > 1           Relative density 420 °C         > 0. PA @ 20 °C           Relative density         S 00.08 g/mol           Solubility         Solubile in water. Solubile in ethanol.           Log Pow         0.07           Auto-ignition temperature         N o data available           Decomposition temperature         N o data available           Viscosity, informatio         N o data available           Viscosity, dynamic         N o data available           Substoin gropperfies         N o data available           Substoin gropperfies         N o data available           Substoin formation         No data available           Substoin formation available         No data available           Substoin formation available         No data available           Subdata available         No data available <td>•</td> <td></td>	•		
Boiling point         :         122 °C           Flash point         :         113 °C           Flash point         :         No data available           Flash point         :         No flasm available           Flasm point         :         No flasm available           Molecular mass         :         > 1           Relative vapor density at 20 °C         :         No flasm available           Soluble in water. Soluble in ethanol.         :         No flasm available           Decomposition temperature         :         No data available           Decomposition temperature         :         No data available           Decomposition temperature         :         No data available           Suboility of maxito         :         No data available			
Flash point       113 °C         Relative exaporation rate (butyl acetate=1)       1 No data available         Flammability (solid, gas)       2 No flammabile.         Vapor pressure       0 kPa @ 20 °C         Relative density       20 °C         Relative density       21 °C         Molecular mass       90.08 g/mol         Solubility       2 Soluble in water. Soluble in ethanol.         Log Pow       2 ·0.7         Auto-ignition temperature       1 No data available         Decomposition temperature       2 ·0.7         Auto-ignition temperature       1 No data available         Decomposition temperature       2 ·0.7         Auto-ignition temperature       1 No data available         Viscosity, Ainamic       2 ·0.7         Auto-ignition temperature       1 No data available         Stoposive properties       1 No data available         Viscosity, Ainamic       2 No data available         Stoposive properties       1 No data available         Stoposive propertits       <			
Relative evaporation rate (butyl acetate=)         ! No data available           Flammability (solid, gas)         : No flammabile.           Vapor pressure         : 0 KPs @ 20 °C           Relative vapor density at 20 °C         : > 1           Relative donsity         : 1.249           Molecular mass         : 90.05 g/mol           Soluble in water. Soluble in ethanol.         :           Log Pow         : 0.7           Auto-ignition temperature         : No data available           Decomposition temperature         : No data available           Viscosity, kinematic         : No data available           Viscosity, kinematic         : No data available           Stopion limits         : No data available           Stopion progenies         : No d		-	
Flammability (solid, gas)         :         Non flammable.           Vapor pressure         :         0. KPA @ 2.0 °C           Relative vapor (sonsity at 20 °C)         :         >.1           Relative vapor density at 20 °C         :         >.1           Relative vapor density at 20 °C         :         >.1           Relative density         :         1.249           Molecular mass         :         Solubile in water. Soluble in ethanol.           Log Pow         :         -0.7           Auto-ignition temperature         :         No data available           Decomposition temperature         :         No data available           Viscosity, dynamic         :         No data available           Supoison limits         :         No data available <tr< td=""><td>-</td><td></td></tr<>	-		
Vapor pressure       :       0 kPa @ 20°C         Relative vapor density at 20°C       :       :         Relative vapor density at 20°C       :       :         Relative density       :       1.249         Molecular mass       :       90.08 g/mol         Solubility       :       Solubile in ethanol.         Log Pow       :       :         Auto-ignition temperature       :       No data available         Decomposition temperature       :       No data available         Viscosity, Vinamic       :       No data available         Viscosity, Vinamic       :       No data available         Civicosity, Orynamic       :       No data available         Civicosity Orynamic       :       No data available         S			
Relative vapor density at 20 °C       i > 1         Relative density       i > 1.249         Relative density       i > 00.08 g/mol         Solubility       i > Soluble in water. Soluble in ethanol.         Log Pow       i > 0.7         Auto-ignition temperature       i > No data available         Decomposition temperature       i > No data available         Decomposition temperature       i > No data available         Decomposition temperature       i > No data available         Explosion limits       i > No data available         Explosion limits       i > No data available         Constring properties       i > No data available         Colding properties       i > No data available         Subosing properties       i > No data available         Colding properties       i > No data available         Subosing properties       i >			
Relative density     1.249       Molecular mass     90.08 g/mol       Solubility     Solubile in water. Soluble in ethanol.       Log Pow     -0.7       Auto-ignition temperature     No data available       Decomposition temperature     No data available       Viscosity, kinematic     No data available       Viscosity, kinematic     No data available       Viscosity, dynamic     No data available       Viscosity, dynamic     No data available       Coldation properties     No data available       Coldation properties     No data available       Coldation properties     No data available       Other information     No data available       Section 1015     No data available       Other information     No data available       Section 1015     No data available       Section 1015     No data available       Section 1015     Section 1015       Stable under normal conditions.     Internet Sections       10.1     Reactivity     Internet Sections       Stable under normal conditions.     Internet Sections       10.4     Conditions to avoid     Internet Sections       Store stability     Internet Sections     Internet Sections       10.4     Conditions to avoid     Store oravisic Carbon dioxide.       Store			
Molecular mass     :     90.08 g/mol       Solubility     :     Solubile in water. Solubile in ethanol.       Log Pow     :     0.7       Auto-ignition temperature     :     No data available       Decomposition temperature     :     No data available       Decomposition temperature     :     No data available       Viscosity, dynamic     :     No data available       Explosin inits     :     No data available       Explosine properties     :     No data available       Cxidzing properties     :     No data available       Oxidzing properties     :     No data available       Stable unformation     No data available       Stable unformation     :     No data available       Stable unformation     :     :       Stable under normal conditions.     :     :       10.1     Reactivity     :     :       Stable under normal condition			
Solubility       :       Solubility in water. Soluble in ethanol.         Log Pow       :      7         Auto-ignition temperature       :       No data available         Decomposition temperature       :       No data available         Discosity, kinematic       :       No data available         Viscosity, kinematic       :       No data available         Viscosity, dynamic       :       No data available         Explosite properties       :       No data available         Subditional information       :       No data available         Outer information       :       No data available         Section 10:       :       Section 10:         Stable under normal conditions       :       No         10.1       Reactivity       :       Section 10:         Stable under normal conditions.       :       .       .         10.1       Reactivity       :       .       .         Store stablished.       :       . <td>,</td> <td></td>	,		
Lag Pow       : 0.7         Auto-ignition temperature       : No data available         Decomposition temperature       : No data available         Viscosity, innematic       : No data available         Viscosity, dynamic       : No data available         Viscosity, dynamic       : No data available         Explosive properties       : No data available         Cidizing properties       : No data available         Oxidizing properties       : No data available         Subicity properties       : No data available         Oxidizing properties       : No data available         Subicity properties       : No data available         Oxidizing properties       : No data available         Subicity properus properus       : No data available		5	
Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Explosion limits : No data available Explosion limits : No data available Explosion limits : No data available Explosion properties : No data available Oxidizing properties : No data available <b>Section 10: Stability and reactivity</b> <b>Section 10: Stability and reactivity</b> <b>Internation</b> <b>No additiona</b> <b>Section 10: Stability and reactivity</b> <b>Internation</b> <b>Stable under normal conditions.</b> <b>10.2 Chemical stability</b> <b>Stabie under normal conditions.</b> <b>Internation tavailable</b> <b>Stabie under normal conditions.</b> <b>Internation tavailable</b> <b>Stabie under normal conditions.</b> <b>Internation tavailable</b> <b>Stabie under normal conditions.</b> <b>Internation tavailable</b> <b>Internation tavailable</b> <b>Stabie under normal conditions.</b> <b>Internation tavailable</b> <b>Stardon stability of low temperatures.</b> <b>Internation available materials</b> <b>Storng basis.</b> metals. May be corrosive to metals. Strong oxidizers. <b>Internation an toxicological information</b> <b>Internation on toxicological effects</b> Likely routes of exposure : Skin and eye contact	-		
Decomposition temperature       No data available         Viscosity, kinematio       No data available         Viscosity, kinematio       No data available         Explosive properties       No data available         Explosive properties       No data available         Oxidizing properties       No data available         Oxidizing properties       No data available         92.       Other information         No adta available       SectroN 10: Stability and reactivity         No adta available       SectroN 10: Stability and reactivity         10.1.       Reactivity         Thermal decomposition generates : Corrosive vapors.       SectroN 10: Stability of hazardous reactions         Not established.       Stable under normal conditions.         10.3.       Possibility of hazardous reactions         Not established.       SectroN 10: Stability of low temperatures.         10.4.       Conditions to avoid         Direct sunlight. Extremely high or low temperatures.       SectroN 11: Toxicological information         10.6.       Hazardous decomposition products         Carbon monoxide. Carbon dioxide.       SectroN 11: Toxicological information         11.1.       Information on toxicological effects         Likely routes of exposure       : Skin and eye contact   <	-		
Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available 9.2. Other information No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity Thermal decomposition generates : Corrosive vapors. 10.2. Chemical stability 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 Storg bases. metals. May be corrosive to metals. Storg oxidizers. 10.6. Hazardous decomposition products Carbon monoxide. Carbon dioxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects			
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Oxidizing properties : No data available   9.2. Other information   No additional information available   SECTION 10: Stability and reactivity   10.1. Reactivity   Thermal decomposition generates : Corrosive vapors.   10.2. Chemical stability   Stability of hazardous reactions   Not estabilisty of hazardous reactions   Not estabilisted.   10.6. Conditions to avoid   Direct sunlight. Extremely high or low temperatures.   10.5. Incompatible materials   Strong bases, metals. May be corrosive to metals. Strong oxidizers.   10.6. Hazardous decomposition products   Carbon monoxide. Carbon dioxide.   SECTION 11: Toxicological information   11.1. Information on toxicological effects   Likely routes of exposure   : Skin and eye contact	Explosion limits	: No data available	
9.2. Other information         No additional information available         SECTION 10: Stability and reactivity         10.1. Reactivity         Thermal decomposition generates : Corrosive vapors.         10.2. Chemical stability         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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6. Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	Explosive properties	: No data available	
No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity Thermal decomposition generates : Corrosive vapors. 10.2. Chemical stability 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 bases. metals. May be corrosive to metals. Strong oxidizers. 10.6. Hazardous decomposition products Carbon monoxide. Carbon dioxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure : Skin and eye contact	Oxidizing properties	: No data available	
SECTION 10: Stability and reactivity         10.1. Reactivity         Thermal decomposition generates : Corrosive vapors.         10.2. Chemical stability         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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6. Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	9.2. Other information		
10.1.       Reactivity         Thermal decomposition generates : Corrosive vapors.         10.2.       Chemical stability         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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6.       Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	No additional information available		
10.1.       Reactivity         Thermal decomposition generates : Corrosive vapors.         10.2.       Chemical stability         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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6.       Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	SECTION 10: Stability and reactivity	1	
Thermal decomposition generates : Corrosive vapors.  10.2. Chemical stability 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 bases. metals. May be corrosive to metals. Strong oxidizers.  10.6. Hazardous decomposition products Carbon monxide. Carbon dioxide.  SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure : Skin and eye contact			
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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6.       Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Likely routes of exposure       : Skin and eye contact		apors.	
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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6.       Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1.       Information on toxicological effects         Likely routes of exposure       : Skin and eye contact		·	
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 bases. metals. May be corrosive to metals. Strong oxidizers.         10.6. Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Likely routes of exposure       : Skin and eye contact			
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10.4. Conditions to avoid         Direct sunlight. Extremely high or low temperatures.         10.5. Incompatible materials         Strong bases. metals. May be corrosive to metals. Strong oxidizers.         10.6. Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	,		
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10.6. Hazardous decomposition products         Carbon monoxide. Carbon dioxide.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Likely routes of exposure       : Skin and eye contact	10.5. Incompatible materials		
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SECTION 11: Toxicological information 11.1. Information on toxicological effects Likely routes of exposure : Skin and eye contact	Carbon monoxide. Carbon dioxide.		
Information on toxicological effects         Likely routes of exposure       : Skin and eye contact		tion	
Likely routes of exposure : Skin and eye contact			
	II.I. Information on toxicological effects		
Acute toxicity : Not classified		•	
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

pH: 2 (1% aqueous solution)         Serious eye damage/irritation         pH: 2 (1% aqueous solution)         Respiratory or skin sensitization         i::::::::::::::::::::::::::::::::::::	Lactic Acid, 85% w/w, ACS (50-21-5)	
Skin corrosion/irritation       : Causes severe skin burns and eye damage.         pH: 2 (1% aqueous solution)         Serious eye damage/irritation       : Causes serious eye damage.         pH: 2 (1% aqueous solution)         Repiratory or skin sensitization       : Not classified         Bern cell mutagenicity       : Not classified         Carcinogenicity       : Not classified         Bern cell mutagenicity       : Not classified         Specific target organ toxicity - single exposure       : Not classified         Specific target organ toxicity - repeated       : Not classified         Specific target organ toxicity - repeated       : Not classified         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after extinct contact       : Causets erious eye damage.         Symptoms/effects after inhalation       : Curosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Curosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Curosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Curosion of the skin.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Curosion information         22.       Persistence	LD50 oral rat	3543 mg/kg
pH: 2 (1% aqueous solution)         Serious eye damage/irritation         pH: 2 (1% aqueous solution)         Respiratory or skin sensitization         i::::::::::::::::::::::::::::::::::::	ATE US (oral)	3543 mg/kg body weight
Berious eye damage/irritation       ::       Causes serious eye damage. DH: 2 (1% aqueous solution)         Respiratory or skin sensitization       :       Not classified         Bern cell mutagenicity       :       Not classified         Carcinogenicity       :       Not classified         Bernoductive toxicity       :       Not classified         Specific target organ toxicity - single exposure       :       Not classified         Specific target organ toxicity - repeated       :       Not classified         Specific target organ toxicity - repeated       :       Not classified         Potential Adverse human health effects and       :       Based on available data, the classification criteria are not met.         Symptoms/effects after shin contact       :       Causes serious eye damage.       Symptoms/effects after shin contact       :       Causes serious eye damage.         Symptoms/effects after shin contact       :       Causes serious eye damage.       Symptoms/effects after shin contact       :       Causes serious eye damage.         Symptoms/effects after shin contact       :       Causes serious eye damage.       :       Sector S	Skin corrosion/irritation	: Causes severe skin burns and eye damage.
PH: 2 (1% aqueous solution)         Respiratory or skin sensitization       : Not classified         Sarm cell mutagenicity       : Not classified         Carcinogenicity       : Not classified         Specific target organ toxicity - single exposure       : Not classified         Specific target organ toxicity - repeated       : Not classified         Specific target organ toxicity - repeated       : Not classified         Specific target organ toxicity - repeated       : Not classified         Potential Adverse human health effects and       : Based on available data, the classification criteria are not met.         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after skin contact       : Causes serious eye damage.         Symptoms/effects after singestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Crussion of the skin.         Symptoms/effects after singestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Causes serious eye damage.         Symptoms/effects after singestion       : Burns. Nausea.         Sectic Acid, 85% wiw, ACS (50-21-5)       : Persistence and degradability         Va dditional information available       : Not established.         12.3. Toxici V       : 0.7         Bioaccumula		pH: 2 (1% aqueous solution)
Respiratory or skin sensitization       Not classified         Germ cell mutagenicity       Not classified         Reproductive toxicity       Not classified         Reproductive toxicity       Not classified         Specific target organ toxicity – single exposure       Not classified         Specific target organ toxicity – repeated       Not classified         Specific target organ toxicity – repeated       Not classified         Potential Adverse human health effects and       Based on available data, the classification criteria are not met.         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Coustic burns/corrosion of the skin.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Dust stabilished.         12:1.       Toxicity       Not estabilished.         12:2.       Persistence and degradability       Not estabilished.         12:3.       Bioaccumulative potential       Not estabilished.         12:4.       Mobility in soil       Not estabilished.         12:4.       Mobility in soil       Not estabilished.         12:5.       Other adverse effects       IVIII	Serious eye damage/irritation	: Causes serious eye damage.
Bern cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity - repeated : Seed on available data, the classification criteria are not met. Symptoms/effects after inhalation : Corrosion of the upper respiratory tract. Symptoms/effects after skin contact : Causes berious eye damage. Symptoms/effects after ingestion : Burns. Nausea. Vomiting. SECTION 12: Ecological information E2.1. Toxicity No additional information available E2.2. Persistence and degradability = Not established. E2.3. Bioaccumulative potential Lactic Acid, 85% wiw, ACS (50-21-5) Eqo Pow = -0.7 Bioaccumulative potential Not established. E2.4. Mobility in soil Vo additional information available E2.5. Other adverse effects		pH: 2 (1% aqueous solution)
Carcinogenicity       : Not classified         Reproductive toxicity       : Not classified         Specific target organ toxicity – single exposure       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Not classified         Specific target organ toxicity – repeated       : Corrosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after eve contact       : Caustes burns, Oronosion of the skin.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Euros. Nausea. Vomiting.         E12.       Persistence and degradability       Not established.         Lactic Acid, 85% wiw, ACS (50-21-5)       Image: Acid Acid, 85% wiw, ACS (50-21-5)         Log Pow	Respiratory or skin sensitization	: Not classified
Aeproductive toxicity : Not classified Specific target organ toxicity – single exposure : Not classified Specific target organ toxicity – repeated : Not classified Aspiration hazard : Not classified Potential Adverse human health effects and : Based on available data, the classification criteria are not met. Symptoms Symptoms/effects after inhalation : Corrosion of the upper respiratory tract. Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Symptoms/effects after reve contact : Caustic burns/corrosion of the skin. Symptoms/effects after eve contact : Caustic burns/corrosion of the skin. Symptoms/effects after eve contact : Causes serious eve damage. Symptoms/effects after inhalation : Burns. Nausea. Vomiting. <b>SECETION 12: Ecological information</b> <b>12:1. Toxicity</b> Vo additional information available <b>12:2. Persistence and degradability</b> <b>Lactic Acid, 85% wiw, ACS (50-21-5)</b> Persistence and degradability Not established. <b>12:3. Bioaccumulative potential</b> <b>Lactic Acid, 85% wiw, ACS (50-21-5)</b> Log Pow - 0.7 Bioaccumulative potential Not established. <b>12:4. Mobility in soil</b> Vo established. <b>12:4. Mobility in soil</b> Vo additional information available	Germ cell mutagenicity	
Specific target organ toxicity – single exposure i Not classified Specific target organ toxicity – repeated i Not classified Aspiration hazard i Not classified Potential Adverse human health effects and i Based on available data, the classification criteria are not met. Symptoms Symptoms/effects after inhalation i Corrosion of the upper respiratory tract. Symptoms/effects after eve contact i Causes serious eve damage. Symptoms/effects after ingestion i Burns. Nausea. Vomiting. SECTION 12: Ecological information 22. Persistence and degradability Lactic Acid, 85% w/w, ACS (50-21-5) Persistence and degradability Not established. 23. Bioaccumulative potential Lag Pow 0.7. Bioaccumulative potential Not established. 24. Mobility in soil Not established. 25. Other adverse effects	Carcinogenicity	: Not classified
Specific target organ toxicity – repeated       : Not classified         Aspiration hazard       : Not classified         Potential Adverse human health effects and       : Based on available data, the classification criteria are not met.         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after eye contact       : Caustic burns/corrosion of the skin.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Causes serious eye damage.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Causes serious eye damage.         Symptoms/effects after ope contact       : Causes serious eye damage.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Eurose and degradability         Va additional information available       :         12.1. Toxicity       Not established.         12.3. Bioaccumulative potential       Not established.         Lactic Acid, 85% wiw, ACS (50-21-5)       :         Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         12.4. Mobility in soil       Not established.	Reproductive toxicity	: Not classified
Aspiration hazard       : Not classified         Potential Adverse human health effects and :: Based on available data, the classification criteria are not met.         Symptoms       : Corrosion of the upper respiratory tract.         Symptoms/effects after inhalation       : Corrosion of the upper respiratory tract.         Symptoms/effects after eye contact       : Caustic burns/corrosion of the skin.         Symptoms/effects after eye contact       : Causes serious eye damage.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SEECTION 12: Ecological information       : Burns. Nausea. Vomiting.         SEECTION 12: Ecological information       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Burns. Nausea.         12.1. Toxicity       Von additional information available         12.2. Persistence and degradability       Not established.         12.3. Bioaccumulative potential       Not established.         12.3. Bioaccumulative potential       Not established.         12.4. Mobility in soil       Not established.         12.4. Mobility in soil       Not established.         12.5. Other adverse effects	Specific target organ toxicity – single exposure	: Not classified
Octonitial Adverse human health effects and symptoms       : Based on available data, the classification criteria are not met.         Symptoms/effects after skin contact       : Corrosion of the upper respiratory tract.         Symptoms/effects after skin contact       : Caustic burns/corrosion of the skin.         Symptoms/effects after eye contact       : Caustic burns/corrosion of the skin.         Symptoms/effects after ingestion       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Burns. Nausea. Vomiting.         SECTION 12: Ecological information       : Burns. Nausea. Vomiting.         Section 10: Context       : Caustic burns/corrosion         12.1.       Toxicity         No additional information available       :         12.2.       Persistence and degradability         Vactic Acid, 85% w/w, ACS (50-21-5)       Persistence and degradability         Persistence and degradability       Not established.         12.3.       Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)       .         Log Pow       -0.7         Bioaccumulative potential       Not established.         12.4.       Mobility in soil         No additional information available       .         12.5.       Other adverse effects	Specific target organ toxicity – repeated exposure	: Not classified
symptoms Symptoms/effects after inhalation : Corrosion of the upper respiratory tract. Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects after ingestion : Burns. Nausea. Vomiting.  SECTION 12: Ecological information E2.1. Toxicity No additional information available E2.2. Persistence and degradability Lactic Acid, 85% w/w, ACS (50-21-5) Persistence and degradability I Not established. E2.3. Bioaccumulative potential Lactic Acid, 85% w/w, ACS (50-21-5) Log Pow -0.7 Bioaccumulative potential Not established. E2.4. Mobility in soil Not established. E2.5. Other adverse effects	Aspiration hazard	: Not classified
Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects after ingestion : Burns. Nausea. Vomiting. SECTION 12: Ecological information ECTION 12: Ecological information ECTION 12: Ecological information E2.1. Toxicity No additional information available E2.2. Persistence and degradability Lactic Acid, 85% w/w, ACS (50-21-5) Persistence and degradability Not established. E2.3. Bioaccumulative potential Lactic Acid, 85% w/w, ACS (50-21-5) Log Pow -0.7 Bioaccumulative potential E2.4. Mobility in soil Not established. E2.5. Other adverse effects	Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects after ingestion : Burns. Nausea. Vomiting. SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability Lactic Acid, 85% w/w, ACS (50-21-5) Persistence and degradability Not established. 12.3. Bioaccumulative potential Lactic Acid, 85% w/w, ACS (50-21-5) Log Pow 0.7 Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects	Symptoms/effects after inhalation	: Corrosion of the upper respiratory tract.
Symptoms/effects after ingestion : Burns. Nausea. Vomiting.  SECTION 12: Ecological information  12.1. Toxicity No additional information available  12.2. Persistence and degradability  Lactic Acid, 85% w/w, ACS (50-21-5) Persistence and degradability  Not established.  12.3. Bioaccumulative potential  Lactic Acid, 85% w/w, ACS (50-21-5) Log Pow  -0.7 Bioaccumulative potential Not established.  12.4. Mobility in soil No additional information available  12.5. Other adverse effects	Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
SECTION 12: Ecological information         12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Lactic Acid, 85% w/w, ACS (50-21-5)         Persistence and degradability         Not established.         12.3. Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow         0.7         Bioaccumulative potential         Not established.         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	Symptoms/effects after eye contact	: Causes serious eye damage.
12.1. Toxicity         No additional information available         12.2. Persistence and degradability         Lactic Acid, 85% w/w, ACS (50-21-5)         Persistence and degradability         Not established.         12.3. Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow         -0.7         Bioaccumulative potential         Not established.         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	Symptoms/effects after ingestion	: Burns. Nausea. Vomiting.
No additional information available          12.2.       Persistence and degradability         Lactic Acid, 85% w/w, ACS (50-21-5)         Persistence and degradability       Not established.         12.3.       Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)       -0.7         Log Pow       -0.7         Bioaccumulative potential       Not established.         12.4.       Mobility in soil         No additional information available       Iterative potential         12.5.       Other adverse effects	SECTION 12: Ecological information	
12.2. Persistence and degradability         Lactic Acid, 85% w/w, ACS (50-21-5)         Persistence and degradability       Not established.         12.3. Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow       -0.7         Bioaccumulative potential         Not established.         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	12.1. Toxicity	
Lactic Acid, 85% w/w, ACS (50-21-5)         Persistence and degradability       Not established.         12.3. Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow       -0.7         Bioaccumulative potential       Not established.         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	No additional information available	
Persistence and degradability       Not established.         12.3.       Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)	12.2. Persistence and degradability	
12.3. Bioaccumulative potential         Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow       -0.7         Bioaccumulative potential       Not established.         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	Lactic Acid, 85% w/w, ACS (50-21-5)	
Lactic Acid, 85% w/w, ACS (50-21-5)         Log Pow       -0.7         Bioaccumulative potential       Not established.         12.4.       Mobility in soil         No additional information available       12.5.         Other adverse effects       12.5.	Persistence and degradability	Not established.
Log Pow     -0.7       Bioaccumulative potential     Not established.       12.4.     Mobility in soil       No additional information available       12.5.     Other adverse effects	12.3. Bioaccumulative potential	
Bioaccumulative potential     Not established.       12.4.     Mobility in soil       No additional information available       12.5.     Other adverse effects	Lactic Acid, 85% w/w, ACS (50-21-5)	
I2.4.       Mobility in soil         No additional information available         12.5.       Other adverse effects	Log Pow	
No additional information available 12.5. Other adverse effects	Bioaccumulative potential	Not established.
12.5. Other adverse effects	12.4. Mobility in soil	
	No additional information available	
Other information : Avoid release to the environment.	12.5. Other adverse effects	
	Other information	: Avoid release to the environment.

13.1.Disposal methodsWaste disposal recommendationsEcology - waste materials	<ul><li>Dispose in a safe manner in accordance with local/national regulations.</li><li>Avoid release to the environment.</li></ul>
<b>SECTION 14: Transport information</b>	

# SECTION 14: Transport informationDepartment of Transportation (DOT)In accordance with DOTTransport document description: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, IIIUN-No.(DOT): UN3265Proper Shipping Name (DOT): Corrosive liquid, acidic, organic, n.o.s.Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136Packing group (DOT): III - Minor Danger11/07/2017EN (English US)

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Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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).</li> <li>T7 - 4 178.274(d)(2) Normal 178.275(d)(3)</li> <li>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.</li> <li>TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.</li> </ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Lactic Acid, 85% w/w, ACS (50-21-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations	
CANADA	
Lactic Acid, 85% w/w, ACS (50-21-5)	
Listed on the Canadian DSL (Domestic Substances List)	

**EU-Regulations** No additional information available

#### National regulations

	Lactic Acid, 85% w/w, ACS (50-21-5)
Γ	Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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<b>SECTION 16: Other information</b>	
Revision date	: 11/07/2017
Other information	: None.
Full text of H-phrases: see section 16:	
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Personal protection	: D
	D - Face shield and eye protection, Gloves, Synthetic apron

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