Section 1 - Product Information

Product Name: Delimer ZP			Supplier:	Luster Professional
Product Code Number: 9-82		Information Phone: 314-771-6600	Address:	1100 Central Industrial Drive
Product use:	citric acid cleaner	Emergency Contact: CHEMTREC 1-800-423-9400		St. Louis, MO 63110

Section 2 - Hazard Identification

OSHA Hazards: corrosive

GHS Classification: Corrosive Category 1B

Signal Word: **DANGER**

Hazard Statements

Causes severe skin burns and eye damage.

Precautionary Statements

Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Store locked up. Dispose of contents/ container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Section 3 - Composition

Chemical Name	CAS #	Percent w/w
Citric Acid	77-92-9	13
hydroxyacetic acid	79-14-1	8.5

Section 4 - First Aid Measures

Skin: Flush with flowing water for 15 minutes or until slippery feeling disappears. See physician.

Eyes: Flush with flowing water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. & see physician

Ingestion: IF SWALLOWED, rinse mouth, do not induce vomiting, call a POISON CENTER or physician if you feel unwell.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Section 5 - Fire and Explosion Hazard Data

Flash Point:	**Limits**		**Extinguishing Media:**	**Special Fire Fighting Procedures:** Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV. **UNUSUAL FIRE & EXPLOSION HAZARD:** Product will not burn.
none	**LEL**	NA	Water spray or fog, foam, dry chemical, carbon dioxide or alcohol foam, if product involved.	
	UEL	NA		

Section 6 - Accidental Release Measures

Mop up spills and flush to sewers with plenty of water. Neutralize with sodium bicarbonate. Floors may be slippery, use care to avoid falls.

Section 7 - Handling and Storage

For institutional and industrial use only. Not intended for consumer use. Store locked up. Store upright in original closed container.

Section 8 - Exposure Controls/PPE

Ingredient	OSHA PEL:	ACGIH TLV	**PPE**		**General Hygiene Considerations**
citric acid	NA	NA	**Respiratory:**	not normally required	Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
hydroxyacetic acid	10mg/m^3	10mg/m^3	**Eye:**	safety glasses, face shield	
			Skin:	Apron, acid proof gloves	
			Ventilation:	Normal room ventalization	

Section 9 - Physical and Chemical Properties

Appearance	**odor**	**odor threshold**	**pH**	**Melting Point**	**Boiling point**	**Evaporation rate**	**Flammability**	**Upper/lower flammability limits**	**Vapor pressure**
colorless to straw liq.	mild acidic	NE	1.6	NE	212ºF	>1(water =1)	NA	NA	17mm Hg
Vapor Density	**Density**	**Specific Gravity**	**pH(use dil)**	**Solubility**	**Partition coefficient**	**Auto Ignition temp**	**Decomposition Temp**	**Viscosity**	
0.62(air =1)	9.08	1.09	2.6	100% in water	NE	NA	NA	water like	

Section 10 - Stability and Reactivity

Product is stable, hazardous polymerization will not occur. Incompatible with strong alkalis and cyanides. If burned, normal combustion products: Carbon Dioxide, Carbon Monoxide, Nitrous Oxides.

Section 11- Toxicological Information

ingredient	Acute toxicity(oral LD50) rat	Acute toxicity(derm. LD50)rabbit	Eye	Carcinogen	Mutagen	Reproduct. Toxicity	STOST* -single Exposure	STOST Repeated exposure
citric acid	3000mg/kg	NE	NA	NA	NA	NA	NA	NA
hydroxyacetic acid	2040mg/kg	NE	corrosive	NE	NE	NE	NE	NE

Other:

Section 12 - Ecological Information

No information available

Section 13 - Disposal Considerations

Products covered by this SDS, in their original form, are considered corrosive waste(D002) according to RCRA (40 CFR 261). Dispose of in accordance with applicable Federal, State and Local regulations.

Section 14 - Transport Information

UN number	Basic Description(DOT)	Class	Packing Group	LTD QTY
UN3265	Corrosive liquid, acidic, organic, n.o.s(contains hydroxyacetic acid)	8	II	< 1 Liter
UN number	Basic Description(IATA)	Class	Packing Group	LTD QTY
UN3265	Corrosive liquid, acidic, organic, n.o.s(contains hydroxyacetic acid)	8	II	< 0.5L
UN number	Basic Description(IMDG)	Class	Packing Group	LTD QTY
UN3265	Corrosive liquid, acidic, organic, n.o.s(contains hydroxyacetic acid)	8	II	< 1 Liter

Section 15 - Regulatory Information

SARA Title 3: Does not contain reportable chemicals under sections 302, 304, or 313 of Title III of the Superfund amendments and Reauthorization Act of 1986.

CERCLA: Does not contain chemicals subject to reporting under CERCLA. For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68

Section 16 - Other Information

			HMIS:	Health: 2	Flam: 0	Physical: 0	PPE: C
Date Prepared: 01/22/2019			Prepared by: Environmental, Health and Safety Administrator.				

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with materials or in any process, unless specified in the text.

Legend for Abbreviations: NA - not applicable NE - Not Established