Aleva Chemical, Inc. 1792 Latham Street Memphis, TN 38106 888-504-8178

Info@alevachem.com

Safety Data Sheet

LSR

Section 1: Identification

GHS product identifier

Product name: LSR Product Code: 57

Recommended uses and uses advised against

Recommended use:

Descaling: removal of calcified buildup of lime or scale. Uses not recommended:

Use on soft metals, delicate or softer surfaces not reccomneded.

Supplier details

Aleva Chemical, Inc. 1792 Latham St. Memphis, TN 38106

Telephone (general) Website: (888)504-8178 àleváchem.com

Emergency telephone number (800) 535-5053 Infotrac:

Section 2: Hazard identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

Acute Toxicity 4 (Dermal) Corrosive To Metals 1

Eye Damage/Irritation 1 (Irreversible Effects)

Label Elements

OSHA HCS 2012



Danger



Hazard Statements

H312 Harmful if in contact with skin.

H290 May be corrosive to metals. H318 Causes serious eye damage.

Precautionary Statements

Prevention

P280 Wear protective gloves and protective clothing.

P234 Keep only in original container.
P280 Wear eye protection and/or face protection where applicable.

Response

P302 + P352 IF ON SKIN Wash with plenty of water. P312 Call a POISON CONTROL CENTER if you feel unwell. P362 + P364 Take off contaminated clothing and wash before reuse. P321 Follow specific first aid instructions for this chemical.

P390 Absorb spillage to prevent material damage.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

P310 Immediately call a POISON CONTROL CENTER and seek medical attention.

Format: GHS: WHMIS, OSHA HCS 2012

Storage/Disposal

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container per guidelines in section 13.

P405 Store locked up.

P403 + P233 Store in a well-ventilated place.

P406 Store in corrosive resistant container or container with resistant inner liner.

P501 Dispose of contents/container per guidelines in section 13. P405 Store locked up. P501 Dispose of contents/container per guidelines in section 13. P406 Store in corrosive resistant container or container with resistant inner liner.

Other hazards

OSHA HCS 2012

No data available.

Other information NFPA



Section 3: Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Hydrochloric Acid

[Muriatic Acid] CAS No. 7647-01-0] CAS No. Not specified

8% - 26%

See section 11 for toxicological information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation:

Move victim to fresh air. Give artificial respiration if victim is not breathing.

Skin:

Immediately flush skin with running water for at least 20 minutes.

Eye:

Irrigate with water immediately. Seek medical attention.

Ingestion:

Call poison control center. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Refer to section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed:

All treatments should be based on observed signs and symptoms of distress in the patient.

Format: GHS: WHMIS, OSHA HCS 2012

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Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:

No data available.

Special becomes a riging from the substance or mixture.

Special hazards arising from the substance or mixture

Unusual fire and explosion hazards:

Material data lacking.

Hazardous combustion products:

Material data lacking

Advice for firefighters

Use water spray to cool containers exposed to fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled

material

Emergency procedures:
Environmental precautions

As an immediate precautionary measure, isolate spill or leak for at least 50 meters.

Avoid run off to waterways and sewers.

Methods and material for containment and clean-up

Stop leak if you can do it without risk.

Section 7: Handling and Storage

Precautions for safe handling

Handling

Follow general workplace safety guidelines.

Conditions for safe storage, including any incompatibilities

Storage:

Store at or near room temperature. Keep container closed when not in use.

Incompatible materials or ignition sources:

Material data lacking

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
Component	Result	NIOSH	ACGIH	Canada Ontario		
Hydrochloric Acid CAS No. 7647-01-0	STELs	N/A	N/A	Data lacking		
	TWAs	N/A	N/A	Data lacking		
Nonionic Surfactants CAS No. Not specified	STELs	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	Data lacking		
	TWAs	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	Data lacking		

Exposure controls

Engineering measures and controls:

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Incompatible materials or ignition sources: Pictograms:

12.20.2015 V1.1





Respiratory:

Not required.

Eye and face:

Must wear googles when using this product

Hands:

Format: GHS : WHMIS, OSHA HCS 2012

Skin and body:

Must wear chemical protective gloves when using this product.

Chemical protective clothing recommended when using this product.

General industrial hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling.

Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to Abbreviations
ACGIH= American Conference of Governmental Industrial Hygiene
OSHA =Occupational Safety and Health Administration
MSHA = Mine Safety and Health Administration

Environmental exposure controls:

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures NIOSH= National Institute of Occupational Safety and Health STEV = Short Term Exposure Value

Format: GHS: WHMIS, OSHA HCS 2012

Section 9: Physical and Chemical Properties

Information on physical and chemical properties

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Material Description			
Physical Form	Liquid	Appearance/Description	Opaque
Color	Deep brown/red	Odor	Moderate acidic odor
Taste	Data lacking	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Data lacking	Physical and Chemical Properties	Data lacking
General Properties	•		
Boiling Point	> 212 F	Melting Point	Data lacking
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
рН	< 2	Specific Gravity/Relative Density	1.038
Density	Data lacking	Bulk Density	Data lacking
Water Solubility	Soluble	Solvent Solubility	Not applicable
Viscosity	Data lacking	Explosive Properties	Classification criteria not met
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	1	VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking	Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	Not applicable	UEL	Not applicable
LEL	Data lacking	Autoignition	Not applicable
Self-Accelerating Decomposition Temperature (SADT)	Data lacking	Heat of Combustion (ΔHc)	Not applicable
Burning Time	Not applicable	Flame Duration	Not applicable
Flame Height	Not applicable	Flame Extension	Not applicable
Ignition Distance	Not applicable	 Flammability (solid, gas)	Not applicable
Environmental			
Half-Life	Data lacking	Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking	Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking	Biochemical Oxygen Demand BOD/BOD5	Data lacking
Chemical Oxygen Demand	Data lacking	Persistence	Data lacking
Degradation	Data lacking		

Section 10: Stability and Reactivity

Reactivity

Material data lacking.

Chemical stability

Material data lacking.

Possible hazardous reactions

Material data lacking.

Conditions to avoid

Material data lacking.

Incompatible materials

Material data lacking

Hazardous decomposition products

Material data lacking.

Section 11: Toxicological Information

Information on toxicological effects

Component	CAS No.	Data
Hydrochloric Acid	7647-01-0	DERMAL LD50 Rabbit > 5010 mg/kg, ORAL LD50 Rat 700 mg/kg Data lacking Data lacking
Nonionic Surfactants	Not specified	Dermal LD50: 1800 μL/kg (Rabbit) Data lacking Data lacking

Target organs

No data available. Routes of entry and/or exposure

No data available.

Potential health effects

Acute (immediate): Chronic (delayed):

No data available.

Skin

No data available.

Acute (immediate): Chronic (delayed):

No data available. No data available.

No data available.

No data available

Ingestion

Acute (immediate):

No data available. Chronic (delayed):

Eye

Acute (immediate):

No data available. Chronic (delayed):

Section 12: Ecological Information

Toxicity

Material data lacking.

Persistence and degradability

Material data lacking.

Bioaccumulative potential

Material data lacking.

Mobility in soil

Material data lacking.

Other adverse effects

No studies have been found.

Other information

No additional information available.

Section 13: Disposal Considerations

Waste treatment methods

Product waste

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not reuse container, keep used container tightly closed during storage. Container may contain dangerous product residue.

Section 14: Transport Information

Special precautions for user

Contain spills immediately, do not allow liquid to sit in contact with surrounding surfaces.

Transport in bulk according to annex II of MARPOL 73/78 and the IBC code

Section 15: Regulatory Information

Safety, health and environmental regulations specific to substance or mixture

SARA hazard classifications:

This material contains Muriatic Acid which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Section 16: Other Information

Last revision date:

6/15/2015

Preparation date:

7/17/2018

Disclaimer and statement of liability:

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Format: GHS: WHMIS, OSHA HCS 2012