



# MARTRON INC. SAFETY DATA SHEET MARTRON ALOX 289

## 1. IDENTIFICATION

### Product Identifier

**Product Name** MARTRON ALOX 289  
**Product Number** MFC-005004

### Other Means of Identification

**UN/ID Number** UN3264  
**Synonyms** None

### Recommended Use of the Chemical and Restrictions on use

**Recommended Use** Metal finish  
**Uses Advised Against** No information available

### Supplier and Address

**Martron Inc.**  
1394-A Walkup Ave  
Monroe, NC 28110  
704-289-1934

### Website

[www.martroninc.com](http://www.martroninc.com)

### Emergency Number

**CHEMTREC 800-424-9300**

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity – Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### Label Elements



### Signal Word

**DANGER**

### Hazard Statements

Harmful if swallowed.  
Harmful if inhaled.  
Causes severe skin burns and eye damage.

### Precautionary Statements

#### Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Do not breathe dust/fume/gas/mist/vapors/spray.

**Response**

Immediately call a POISON CENTER or doctor/physician. Specific treatment (see Section 4).

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 or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell.

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth. Do NOT induce vomiting.

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant in accordance with all Federal, State, and Local regulations.

**Hazards Not Otherwise Classified (HNOC)**

Not applicable

**Other Information**

Not applicable

**3. COMPOSITION / INFORMATION ON INGREDIENTS****Substance**

Chemical Name	CAS #	Weight %
Sulfuric Acid 66 – (93% Strength)	7664-93-9	18
Sodium Nitrate	7631-99-4	6

**4. FIRST AID MEASURES****Description of First Aid Measures****Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Inhalation**

Remove victim to fresh air or supply oxygen. Administer artificial respiration if victim is unconscious. Seek medical attention if victim is unconscious. Seek medical attention if victim is overcome by vapors or breathing difficulty persists.

**Ingestion**

Seek medical attention immediately. If conscious, give victim two glasses of water to dilute ingested material. Do not induce vomiting. If victim begins to vomit involuntarily, keep head below hips to prevent aspiration. Monitor for breathing difficulty.

**Most Important Symptoms and Effects, Both Acute and Delayed****Symptoms**

No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed****Note to Physicians**

Treat symptomatically.

**5. FIREFIGHTING MEASURES****Suitable Extinguishing Media**

Product is water based and will not support flames. Water may be used to cool fire-exposed containers. Wear self-containing breathing apparatus with full face piece.

**Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising From the Chemical**

No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions**

See Section 12 for additional Ecological Information.

**Methods and Material for Containment and Cleanup****Methods for Containment**

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general purpose binder). Dispose of absorbed material in accordance with regulations. Large spills: Stop the flow of material if this is without risk. Dike the spilled material where this is possible. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water. Never return spills to original containers for re-use.

**Methods for Cleanup**

Pick up and transfer to properly labeled containers.

**7. HANDLING and STORAGE****Precautions for Safe Handling****Advice on Safe Handling**

Keep container closed when not in use. Store at room temperature in well ventilated areas. Prevent product from freezing. Follow Safety Data Sheet (SDS) and label warnings even after package is empty. Do not cut, puncture, or weld empty container. Not for use in pressure washing equipment. Product applications which generate dust, mist, or fumes may require exposure limit modification. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Use personal protection recommended in Section 8.

**Conditions for Safe Storage, Including Any Incompatibilities****Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials**

Incompatible with strong acids and bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric Acid 66 (93% Strength) 7664-93-9	TWA: 0.2 mg/m <sup>3</sup> thoracic fraction	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

**Appropriate Engineering Controls****Engineering Controls**

Showers. Eyewash stations. Ventilation systems.

**Individual Protection Measures, Such as Personal Protective Equipment****Eye / Face Protection**

Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**

Wear protective gloves and protective clothing.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Light brown liquid
<b>Odor</b>	No information available
<b>Color</b>	Light brown
<b>Odor Threshold</b>	No information available

**Property****Values****Remarks • Method**

pH	1.0	
Melting Point/Freezing Point	No information available	
Boiling Point/Boiling Range	152°F	
Flash Point	> 300°F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	1.4269	
Water Solubility	No information available	
Solubility in Other Solvents	No information available	
Partition Co-Efficient	No information available	

<b>Auto-Ignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic Viscosity</b>	No information available
<b>Dynamic Viscosity</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

**Other Information**

<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk Density</b>	No information available

**10. STABILITY and REACTIVITY****Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Incompatible with strong acids and bases.

**Hazardous Decomposition Products**

Carbon oxides. Steam. Hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Product Information**

No data available

**Inhalation**

Harmful by inhalation.

**Eye Contact**

Corrosive, prevent contact.

**Skin Contact**

Irritating to skin. Avoid contact with skin.

**Ingestion**

Harmful if swallowed.

**Component Information**

Caution - substance not yet tested completely

Chemical Name	ATEmix (Oral)	ATEmix (Dermal)	Inhalation LC50
Sulfuric Acid 66-(93% Strength) 7664-93-9	= 2140 mg/kg (Rat)		= 510 mg/m <sup>3</sup> (Rat) 2 h
Sodium Nitrate 7631-99-4	= 1267 mg/kg (Rat)		

**Information on Toxicological Effects****Symptoms**

No information available.

**Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-Term Exposure****Skin Corrosion/Irritation**

Causes burns.

**Serious Eye Damage/Eye Irritation**

Risk of serious damage to eyes.

**Corrosivity**

Causes burns.

**Sensitization**

No information available.

**Germ cell Mutagenicity**

No information available.

**Carcinogenicity**

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric Acid 66 - (93% Strength) 7664-93-9	A2	Group 1	Known	X
Sodium Nitrate - 7631-99-4	-	Group 2A	-	X

**Reproductive Toxicity**

No information available.

**STOT - Single Exposure**

No information available.

**STOT - Repeated Exposure**

No information available.

**Aspiration Hazard**

No information available.

**Numerical Measures of Toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Sulfuric Acid 66 (93% Strength) 7664-93-9	-	500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50
Sodium Nitrate 7631-99-4	-	2000: 96 h Lepomis macrochirus mg/L C50 static 994.4 - 1107: 96 h Oncorhynchus mykiss mg/L LC50 static	

**Persistence and Degradability**

No information available.

**Bio-Accumulation**

No information available.

Chemical Name	Partition Coefficient
Sodium Nitrate 7631-99-4	-3.8

**Other Adverse Effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Do not reuse container.

Chemical Name	California Hazardous Waste Status
Sulfuric Acid 66 - (93% Strength) 7664-93-9	Toxic, Corrosive
Sodium Nitrate - 7631-99-4	Toxic, Ignitable, Reactive

### 14. TRANSPORT INFORMATION

**DOT**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Special Provisions** B2, IB2, T11, TP2, TP27  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S., (Sulfuric Acid Solution), 8, II  
**Emergency Response Guide Number** 154

**TDG**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Description** UN3264, Corrosive liquid, acidic, inorganic N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**MEX**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**ICAO (air)**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Special Provisions** A3

**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**IATA**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**ERG Code** 8L  
**Special Provisions** A3, A803  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**IMDG**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**EmS-No** F-A, S-B  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**RID**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Classification code** C1  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II

**ADR**

**UN/ID Number** UN3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Classification Code** C1  
**Tunnel Restriction Code** (E)  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II, (E)

**Labels**

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**ADN**

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Classification Code** C1  
**Special Provisions** 274  
**Description** UN3264, Corrosive liquid, acidic, inorganic, N.O.S. (Sulfuric Acid 66 - (93% Strength), 8, II  
**Hazard Label(s)** 8  
**Limited Quantity (LQ)** 1 L

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies



ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 – Threshold Values %
Sulfuric Acid 66 (93% Strength) – 7664-93-9	1.0
Sodium Nitrate – 7631-99-4	1.0

**SARA 311 / 312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Sulfuric Acid 66-(93% Strength) 7664-93-9	1000 lb.	-	-	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric Acid 66-(93% Strength) 7664-93-9	1000 lb.	1000 lb.	RQ 1000 lb final RQ RQ 454 kg final RQ

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Proposition 65
Sulfuric Acid 66 – (93% Strength) – 7664-93-9	Carcinogen

**US State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sulfuric Acid 66- (93% Strength) 7664-93-9	X	X	X
Sodium Nitrate 7631-99-4	X	X	X

**US EPA Label Information****EPA Pesticide Registration Number**

Not applicable

**16. OTHER INFORMATION****NFPA****Health Hazards** 3**Flammability** 0**Instability** 1**HMIS****Health Hazards** 3**Flammability** 0**Physical Hazards** 1**Personal protection** D**Issue Date** 06/01/2015**Revision Date** 07/15/2015**Revision Note** No information available**Disclaimer**

The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 any other materials or in any process, unless specified in the text.