MARTRON INC.
SAFETY DATA SHEET
MARTRON 561-L

1. IDENTIFICATION OF SUBSTANCE

Product Name: **MARTRON 561-L**
Product Number: **MFC-001003**

Supplier Name and Address:
Martron Inc.
1394-A Walkup Ave.
Monroe, NC 28110
704-289-1934

Website: www.martroninc.com

Emergency Number: CHEMTREC 800-424-9300

2. HAZARD IDENTIFICATION

Classification of the Substance or Mixture:

GHS08 Health Hazard

Carc 1A
H350 May cause cancer.

GHS05 Corrosion

Skin Corrosion 1A
H314 Causes severe skin burns and eye damage.
Eye Damage 1
H318 Causes serious eye damage.

GHS07

Acute Toxic 4
H302 Harmful if swallowed.

GHS Label Elements:
The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:

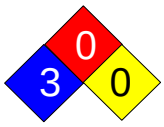
Signal Word:
Danger

Hazard-Determining Components of Labeling:
Sodium hydrogen sulphate; Sulphuric acid; Sodium fluoride

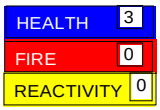
Hazard Statements:
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause cancer.

Precautionary Statements:
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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. Specific treatment (see on this label).
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
IF swallowed: Rinse mouth. Do NOT induce vomiting.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System:
NFPA Ratings (scale 0 - 4)
Health = 3
Fire = 0
Reactivity = 0



HMIS – Ratings (scale 0 – 4)
Health = 3
Fire = 0
Reactivity = 0



Other Hazards:
Results of PBT Assessment:
Not applicable.
Results of vPvB Assessment:
Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization:
Mixtures

Description:
Mixture of the substances listed below with nonhazardous additions.

Chemical Identity	CAS #	Max Conc (wt%)
Sodium Hydrogen Sulphate	7681-38-1	25-50%
Sulphuric Acid	7664-93-9	2.5-<10%
Sodium Fluoride	7681-49-4	2.5 - <10%

4. FIRST AID MEASURES

Description of First Aid Measures:
General Information:
Immediately remove any clothing soiled by the product.
After Inhalation:
In case of unconsciousness place patient stably in side position for transportation.
After Skin Contact:
Immediately wash with water and soap and rinse thoroughly.
After Eye Contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
After Swallowing:
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for Doctor:
Most Important Symptoms and Effects, both Acute and Delayed:
No further relevant information available.
Indication of Any Immediate Medical Attention and Special Treatment Needed:
No further relevant information available.

5. FIREFIGHTING MEASURES

Extinguishing Media:
Suitable Extinguishing Agents:
Use firefighting measures that suit the environment.

Special Hazards Arising from the Substance or Mixture:
No further relevant information available.

Advice for Firefighters / Protective Equipment:
No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear protective equipment. Keep unprotected persons away.

Environmental Precautions:
Do not allow to enter sewers/surface or ground water.

Methods and Material for Containment and Cleaning Up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to Other Sections:
See Section 7 for information on Safe Handling.
See Section 8 for information on Personal Protection Equipment.
See Section 13 for Disposal Information.

Protective Action Criteria for Chemicals
PAC-1:

7681-38-1	Sodium hydrogen sulphate	0.82 mg/m3
7664-93-9	Sulphuric acid	0.20 mg/m3
7681-49-4	Sodium fluoride	17 mg/m3

PAC-2:

7681-38-1	Sodium hydrogen sulphate	9 mg/m3
7664-93-9	Sulphuric acid	8.7 mg/m3
7681-49-4	Sodium fluoride	90 mg/m3

PAC-3:

7681-38-1	Sodium hydrogen sulphate	54 mg/m3
7664-93-9	Sulphuric acid	160 mg/m3
7681-49-4	Sodium fluoride	1,100 mg/m3

7. HANDLING and STORAGE

Handling:
Precautions for Safe Handling:
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information About Protection Against Explosions and Fires:
No special measures required.

Conditions for Safe Storage, Including Any Incompatibilities:
Requirements to be Met by Storerooms and Receptacles:
No special requirements.
Information About Storage in One Common Storage Facility:
Not required.

Further Information About Storage Conditions:
Keep receptacle tightly sealed.
Specific End Use(s):
No further relevant information available.

8. EXPOSURE CONTROLS / PERSONSAL PROTECTION

Additional Information About Design of Technical Systems:
No further data; see item 7.
Control Parameters:
Components with Limit Values That Require Monitoring at the Workplace:
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

7664-93-9 Sulphuric Acid:
PEL Long-term value: 1 mg/m³
REL Long-term value: 1 mg/m³
TLV Long-term value: 0.2* mg/m³
*as thoracic fraction

Additional Information:
The lists that were valid during the creation were used as basis.

Personal Protective Equipment:
General Protective and Hygienic Measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Breathing Equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure,

use respiratory protective device that is independent of circulating air.
Protection of Hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of Gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Penetration Time of Glove Material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection:

Tightly sealed goggles

9. PHYSICAL and CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties:

General Information:	
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Acidic
Odor Threshold:	Not determined
pH-value at 20°C (68°F):	1.1 – 2.1
Change in Condition:	
Melting Point/Melting Range:	Undetermined
Boiling Point/Boiling Range:	100°C (212°F)
Flash Point:	Not applicable
Flammability (solid, gaseous):	Not applicable
Ignition Temperature	
Decomposition Temperature:	Not determined
Auto Igniting:	Product is not self-igniting.
Danger of Explosion:	Product does not present an explosion hazard
Explosion Limits	
Lower:	Not determined.
Upper:	Not determined.
Vapor Pressure at 20°C (68°F):	23 hPa (17 mm Hg)
Density at 20°C (68°F):	1.200 - 1.300 g/cm³ (10.014 - 10.849 lbs/gal)
Relative Density:	Not determined.
Vapor Density:	Not determined.
Evaporation Rate:	Not determined.
Solubility In/Miscibility with Water:	Fully miscible.
Partition Coefficient (n-octanol/water):	Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.

Solvent Content

Organic Solvents:	0.0 %
Water:	50 - 75 %
VOC Content:	0.0 g/l/0.00 lb/gl
Solids Content:	25 - 50 %
Other Information:	No further relevant information available.

10. STABILITY and REACTIVITY

Reactivity:
No further relevant information available.
Chemical Stability:
Thermal Decomposition/Conditions to Be Avoided:
No decomposition if used according to specifications.
Possibility of Hazardous Reactions:
No dangerous reactions known.
Conditions to Avoid:
No further relevant information available.
Incompatible Materials:
No further relevant information available.
Hazardous Decomposition Products:
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:
Acute Toxicity:
LD/LC50 values that are relevant for classification:
7681-49-4 sodium fluoride
Oral LD50 52 mg/kg (rat)

Primary Irritant Effect:
On the Skin:
Caustic effect on skin and mucous membranes.
On the Eye:
Strong caustic effect.
Sensitization:
No sensitizing effects known.

Additional Toxicological Information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic Categories:
IARC (International Agency for Research on Cancer):

7664-93-9	Sulphuric acid	1
7681-49-4	Sodium fluoride	3

NTP (National Toxicology Program):

7664-93-9	Sulphuric acid	K

OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients is listed.

12. ECOLOGICAL INFORMATION

Toxicity:
Aquatic Toxicity:
No further relevant information available.
Persistence and Degradability:
No further relevant information available.

Behavior in Environmental Systems:
Bio-accumulative Potential:
No further relevant information available.
Mobility in Soil:
No further relevant information available.

Additional Ecological Information:
General Notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organism. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT Assessment:
Not applicable.
Results of vPvB Assessment:
Not applicable.
Other Adverse Effects:
No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:
Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Uncleaned Packaging's:
Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number
DOT, IMDG, IATA: UN3264

UN Proper Shipping Name:
DOT: Corrosive liquid, acidic, inorganic, N.O.S. (Sodium Hydrogen Sulphate, Sulphuric Acid)
IMDG, IATA: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sodium Hydrogen Sulphate, Sulphuric Acid)

Transport Hazard Class(es)
DOT:

Class: 8 Corrosive substances

Label: 8

IMDG, IATA:

Class:	8 Corrosive substances
Label:	8
Packing Group DOT, IMDG, IATA:	II
Environmental Hazards:	Not applicable.
Special Precautions for User:	Warning: Corrosive substances
Danger Code (KEMIER):	80
EMS Number:	F-A, S-B
Segregation Groups:	Acids
Stowage Category:	B
Stowage Code:	SW2 Clear of living quarters

Transport in Bulk According to Annex II of Marpol73/78 and the IBC Code:
Not applicable.

Transport / Additional Information

DOT:	
Quantity Limitations:	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
IMDG	
Limited Quantities (LQ)	I L
Excepted Quantities (EQ)	Code: E2
Maximum net quantity per inner packaging:	30 ml
Maximum net quantity per outer packaging:	500 ml
UN "Model Regulation":	UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (SODIUM HYDROGENSULPHATE, SULPHURIC ACID), 8, II

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:
SARA:
Section 355 (Extremely Hazardous Substances):
7664-93-9 Sulphuric acid
Section 313 (Specific Toxic Chemical Listings):
7664-93-9 Sulphuric acid
TSCA (Toxic Substances Control Act):
All ingredients are listed.

Proposition 65:
Chemicals Known to Cause Cancer:
None of the ingredients is listed.
Chemicals Known to Cause Reproductive Toxicity for Females:
None of the ingredients is listed.
Chemicals Known to Cause Reproductive Toxicity for Males:
None of the ingredients is listed.
Chemicals Known to Cause Developmental Toxicity:
None of the ingredients is listed.

Carcinogenic Categories:
EPA (Environmental Protection Agency):
None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH):

7664-93-9	Sulphuric acid	A2
7681-49-4	Sodium fluoride	A4

NIOSH-Ca (National Institute for Occupational Safety and Health):
None of the ingredients is listed.

GHS Label Elements:
The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:

GHS05 GHS07 GHS08



Signal Word:
Danger

Hazard-Determining Components of Labeling:
Sodium hydrogen sulphate
Sulphuric acid
Sodium fluoride

Hazard Statements:
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause cancer.

Precautionary Statements:
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
Specific treatment (see on this label).
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical Safety Assessment:
A Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Preparation / Last Revision:
01/30/2017

Abbreviations and Acronyms:

ADR:	Accord European sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bio accumulative and Toxic
vPvB:	very Persistent and very Bio accumulative
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
TLV:	Threshold Limit Value
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Acute Tox. 4:	Acute toxicity – Category 4
Skin Corr. 1A:	Skin corrosion/irritation – Category 1A
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1
Carc. 1A:	Carcinogenicity – Category 1A