



MARTRON INC. SAFETY DATA SHEET MARTRON F-TX-20C

SECTION 1 – PRODUCT and COMPANY INFORMATION

Product Name: MARTRON F-TX-20C
Product Number: MFC-004565

Chemical Family: Metal working chemicals
Recommended Uses: For industrial use only for parts processing.

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

Website: www.martroninc.com

Emergency Number:
CHEMTREC 800-424-9300

SECTION 2 – HAZARD IDENTIFICATION

Pictograms:
Corrosion and Environment



Signal Word:
DANGER

Physical Hazards:
Not Classified

Health Hazards:
Acute toxicity, Oral (Category 4) Harmful if swallowed.
Skin corrosion (Category 1) Causes severe skin burns and eye damage.
Serious eye damage (Category 1) Causes serious eye damage.

Precautionary Statements

Prevention:

Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If Swallowed:
Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
If on Skin (or hair):
Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If Inhaled:
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or Doctor/physician.
If in Eyes:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.

Environmental Hazards:

Acute aquatic toxicity (Category 1) Very toxic to aquatic life.

Prevention:

Collect spillage.

Storage:

Store locked up.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

HNOC:*

Noneknown.

Supplemental Info:**HMIS Rating:**

Health hazard: 3 Chronic Health Hazard: Flammability: 0 Physical Hazard 0

NFPA Rating:

Health hazard: 3: Fire Hazard: 0 Reactivity Hazard: 0

* Hazard(s) not otherwise classified or not covered by GHS.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	% (wt.)
Sodium Hypophosphite	10039-56-2	30-40
Ammonium Hydroxide	1336-21-6	5-10
Organic Acid	NA	1-5

SECTION 4 – FIRST AID MEASURES**If Inhaled:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In Case of Skin Contact:

Wash off with soap and plenty of water.

In Case of Eye Contact:

Flush eyes with water as a precaution.

If Swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most Important Symptoms and Effects, Both Acute and Delayed:

The most important known symptoms and effects are described in Section 2 and/or in Section 11

Indication of any Immediate Medical Attention and Special Treatment Needed:

No data available.

SECTION 5 – FIREFIGHTING MEASURES**Suitable Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards Arising from the Substance or Mixture:

Oxides of phosphorus, Sodium oxides

Advice for Firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

No data available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see Section 8.

Environmental Precautions:

Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up:

Keep in suitable, closed containers for disposal.

Reference to Other Sections:

For disposal see Section 13.

SECTION 7 – HANDLING and STORAGE**Precautions for Safe Handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see Section 2.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Specific End Use:

See Section 1.

SECTION 8 – EXPOSURE CONTROL and PERSONAL PROTECTION**Control Parameters****Components with Workplace Control Parameters:**Organic Acid:

OSHA PEL (United States). TWA: 5 mg/m³ 8 hour(s).

Ammonia:

OSHA: The legal airborne permissible exposure limit (PEL) is 50 ppm averaged over an 8-hour work shift.

NIOSH: The recommended airborne exposure limit (REL) is 25 ppm averaged over a 10-hour work shift and 35 ppm, not to be exceeded during any 15-minute work period.

ACGIH: The threshold limit value (TLV) is 25 ppm averaged over an 8-hour work shift and 35 ppm as a STEL (short-term exposure limit).

Exposure Controls**Appropriate Engineering Controls:**

General industrial hygiene practice.

The Following Work Practices Are Also Recommended:

Label process containers. Provide employees with hazard information and training. Monitor airborne chemical concentrations. Use engineering controls if concentrations exceed recommended exposure levels. Provide eye wash fountains and emergency showers. Wash or shower if skin comes in contact with a hazardous material. Always wash at the end of the work shift. Change into clean clothing if clothing becomes contaminated. Do not take contaminated clothing home. Get special training to wash contaminated

clothing. Do not eat, smoke, or drink in areas where chemicals are being handled, processed or stored. Wash hands carefully before eating, smoking, drinking, applying cosmetics or using the toilet. In addition, the following may be useful or required: Where possible, transfer Ammonium Hydroxide from drums or other containers to process containers in an enclosed system.

Personal Protective Equipment:

The OSHA Personal Protective Equipment Standard (29 CFR 1910.132) requires employers to determine the appropriate personal protective equipment for each hazard and to train employees on how and when to use protective equipment. The following recommendations are only guidelines and may not apply to every situation.

Gloves and Clothing:

Avoid skin contact with Ammonium Hydroxide. Wear personal protective equipment made from material which cannot be permeated or degraded by this substance. Safety equipment suppliers and manufacturers can provide recommendations on the most protective glove and clothing material for your operation. Safety equipment manufacturers recommend Butyl, Nitrile, Neoprene and Viton for gloves, and Tychem® SL, F, Responder®, and TK, or the equivalent, as protective materials for clothing. All the above recommendations are for Ammonium Hydroxide in less than 30% solution. All protective clothing (suits, gloves, footwear, headgear) should be clean, available each day, and put on before work.

Eye Protection:

Wear indirect-vent, impact and splash resistant goggles when working with liquids. Wear a face shield along with goggles when working with corrosive, highly irritating or toxic substances.

Respiratory Protection:

Improper use of respirators is dangerous. Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134). Where the potential exists for exposure over 25 ppm (as Ammonia), use a NIOSH approved full face piece respirator with an acid gas cartridge which is specifically approved for Ammonium Hydroxide. Increased protection is obtained from full face piece powered-air purifying respirators. Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect Ammonium Hydroxide, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full-face piece respirator. Check to make sure the respirator-to-face seal is still good. If it is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator. Consider all potential sources of exposure in your workplace. You may need a combination of filters, prefilters or cartridges to protect against different forms of a chemical (such as vapor and mist) or against a mixture of chemicals. Where the potential for high exposure exists, use a NIOSH approved supplied-air respirator with a full-face piece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.

Control of Environmental Exposure:

Do not let product enter drains.

SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties:

Physical State	Liquid
Color	Clear to Slightly Yellow
Odor	Strong Ammonia
Odor Threshold	50 ppm
pH	10.4-11.0
Specific Gravity	1.22
Melting Point/Freezing Point	<32°F
Initial Boiling Point/Boiling Range	>212°F
Flash Point	Not Available
Evaporation Rate	Not Available
Flammability	Not Available
Flammability Limit – Lower (%)	Not Available
Flammability Limit – Upper (%)	Not Available
Explosive Limit - Lower (%)	Not Available

Explosive Limit - Upper (%)	Not Available
Vapor Pressure	Not Available
Vapor Density	Not Available
Relative Density	Not Available
Solubility (Water)	Soluble in cold and hot water
Partition Coefficient (n-octanol/water)	Not Available
Auto-Ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Other Information:	
VOC	0 g/l
Other Safety Information:	None

SECTION 10 – STABILITY and REACTIVITY

Reactivity:

No data available

Chemical Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

No data available.

Incompatible Materials:

Strong oxidizing agents, Copper, Iron, and Zinc.

Hazardous Decomposition Products:

None under normal storage and use. At the decomposition temperature product decomposes to form phosphine gas.

Other Decomposition Products:

No information. In the event of fire: see Section 5

Hazardous Polymerization:

Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:Sodium hypophosphite monohydrate:

Acute toxicity: LD50 Oral - rat - 7,640 mg/kg

Organic Acid:

LD50 Oral – Rat – 1600 ppm.

Ammonium Hydroxide:

Health Hazard Information Acute Health Effects The following acute (short-term) health effects may occur immediately or shortly after exposure to Ammonium Hydroxide: Contact can severely irritate and burn the skin and eyes leading to eye damage. Exposure can irritate the eyes, nose and throat. Inhaling Ammonium Hydroxide can irritate the lungs causing coughing and/or shortness of breath. Higher exposures may cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath. **Chronic Health Effects** The following chronic (long-term) health effects can occur at some time after exposure to Ammonium Hydroxide and can last for months or years: Ammonium Hydroxide can irritate the lungs. Repeated exposure may cause bronchitis to develop with coughing, phlegm, and/or shortness of

breath. Repeated skin contact can cause dryness, itching and redness (dermatitis).

Inhalation:

No data available

Dermal:

No data available

Skin Corrosion/Irritation:

No data available

Serious Eye Damage/Eye Irritation:

No data available

Respiratory or Skin Sensitization:

No data available

Germ Cell Mutagenicity:

No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive Toxicity:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

No data available

Aspiration Hazard:

No data available.

SECTION 12 – ECOLOGICAL INFORMATION**Ecotoxicity:**Ammonium hydroxide:

Acute LC50 0.44mg/L Fish 96 hours Acute LC50 0.66 mg/L Fish 96 hours Acute LC50 1.17 mg/L Fish 96 hours Acute LC50 71.1 mg/L Fish 96 hours Acute LC50 74.2 mg/L Fish 96 hours Acute LC50 128.2 mg/L Fish 96 hours

Persistence and Degradability:

No data available

Bio-accumulative Potential:

No data available

Mobility in Soil:

No data available

Other Adverse Effects:

Very toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 – DISPOSAL CONSIDERATION**Waste Disposal Method:**

Dispose of waste in accordance with Federal, State and Local laws.

Disposal Regulatory Requirements:

Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses transformations, mixture, processes, etc., may render the resulting material hazardous (see waste classification)

Container Cleaning and Disposal:

Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

SECTION 14 – TRANSPORT INFORMATION**DOT (US):**

Not dangerous goods

Poison Inhalation Hazard:

No

IMDG:

Not dangerous goods

Marine Pollutant: Yes

IATA:

Not dangerous goods.

SECTION 15 – REGULATORY INFORMATION**SARA 302 Components: SARA 302:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

States:

Massachusetts Right to Know Components

New Jersey Right to Know Components:

Sodium hypophosphite monohydrate (CAS-No. 10039-56-2) and Ammonium hydroxide (CAS-No. 1336-21-6)

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 – OTHER INFORMATION**Disclaimer:**

The information on this Safety Data Sheet (SDS) reflects the latest information and data available to **Martron Inc.** on the hazards, properties and handling of this product under the recommended conditions of use. The use of this product being beyond the control of **Martron Inc.** no warranty expressed or implied is made if not used in accordance with directions or established safe practices.