SAFETY DATA SHEET

Mineral X **Revision Date** 12/14/2015

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **Mineral X** **ITEM** CMX-1 READY

PRODUCT USE Iron & Mineral Cleaner

COMPANY NAME Core Products Co., Inc.
401 Industrial Rd
Canton TX 75103

Office (800) 825-2673
Fax (903) 567-1346
Web www.coreproductsco.com

EMERGENCY TELEPHONE NUMBER **CHEMTREC (800) 424-9300**

SECTION – 2 HAZARDS INFORMATION

Physical Hazards CORROSIVE TO METALS-Category 1

Health Hazards EYES-Category 1

Corrosive to Metals
Eye Damage

DANGER May be corrosive to metals
Causes serious eye damage
Causes mild skin irritation, May be harmful if swallowed, Do not get in eyes, Avoid prolonged skin contact, and inhalation of mist, Use personal protective equipment as required, Wash thoroughly after handling, Avoid release into the environment, KEEP OUT OF REACH OF CHILDREN

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Urea Monohydrochloride	Carbamide Hydrochloride	506-89-8		1 - 5%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists obtain medical attention, preferably from an ophthalmologist

SKIN CONTACT Wash contaminated skin with plenty of soap and water, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out and give one to two glasses of water to dilute and obtain immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard Not applicable

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, redness, tearing, burning, pain, or possible eye damage

Skin Can cause mild skin irritation, drying or cracking

Inhalation Spray mist may cause mild irritation, to mucus membranes or respiratory tract

Ingestion May be harmful if swallowed, May cause irritation, of the mouth, and throat

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, redness, burning, severe pain, corneal injury, or vision impairment

Skin Causes mild skin irritation, defatting of the skin which may lead to dermatitis

Inhalation Spray mist may cause irritation, to mucus membranes or respiratory tract

Ingestion May cause irritation, of the mouth, throat, and esophagus, Symptoms may include, nausea, vomiting, abdominal pain

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Hazardous Decomposition Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride, and other toxic fumes

Reactive With Reactive with, oxidizing agents, carbonates, oxidizing agents, nitrates, hypochlorites, alkaline materials

Explosion Hazards Not applicable

Static Discharge Not applicable

Mechanical Impact Not applicable

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel of spill, Stop spill or release only if it can be done safely
Personal Precautions	Ventilate area, Avoid slipping on spilled product, Keep unprotected personnel from entering the hazard area
Protective Equipment	Safety Glasses, Chemical Gloves and Rubber Boots
Containment	Use rags or towels to prevent spill from spreading, Prevent spill from entering the environment
Clean Up Procedures	Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	Use appropriate safety equipment, and adequate ventilation, Avoid eye and prolonged skin contact, Avoid eye contact, Avoid inhalation of mist, May be harmful if swallowed, Wash thoroughly after handling, Avoid release to the environment, Triple rinse container before discarding
Storage	Keep container closed when not in use, Store away from incompatible materials
Incompatible Materials	Incompatible with, oxidizing agents, chlorates, nitrates, hypochlorites, alkaline materials

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Urea Monohydrochloride	None Established				ED

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield

Impervious Chemical Gloves

Eye Wash (Recommended)

Ventilation

General Ventilation

HMIS HAZARD RATINGS

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3ºC (200ºF) - TAG Closed Cup	**Specific Gravity / Density**	1.21
Flammable Limits	ND	**pH (± 0.3)**	1.0 - 1.5
Auto-Ignition Temp.	ND	**Viscosity**	ND
Physical State	Liquid	**Freeze Point**	0ºC (32ºF)
Appearance	Clear Amber	**Boiling Point**	100ºC (212ºF)
Odor	Mild	**Vapor Density (air=1)**	ND
Odor Threshold	ND	**Vapor Pressure (mm Hg)**	ND
Solubility	100%	**Evaporation Rate (nBuAc=1)**	ND
Volatiles	< 96%	**Partition Coefficient**	ND
VOC	0%	**Molecular Weight (g/mol)**	~ 23.60
LVP-VOC	0%	**Decomposition Temperature**	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under normal ambient and anticipated conditions of use
Hazardous Polymerization	Will not occur
Conditions To Avoid	Incompatible materials
Incompatible Materials	Incompatible with, oxidizing agents, chlorates, nitrates, hypochlorites, alkaline materials
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Inhalation (Yes "Mist"), Ingestion (Yes)

ACUTE	SYMPTOMS OF SINGLE OVEREXPOSURE
Eyes	Causes serious eye irritation, redness, tearing, burning, pain, or possible eye damage
Skin	Can cause mild skin irritation, drying or cracking
Inhalation	Spray mist may cause mild irritation, to mucus membranes or respiratory tract
Ingestion	May be harmful if swallowed, May cause irritation, of the mouth, and throat

CHRONIC	SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE
Eyes	Causes serious eye damage, redness, burning, severe pain, corneal injury, or vision impairment
Skin	Causes mild skin irritation, defatting of the skin which may lead to dermatitis
Inhalation	Spray mist may cause irritation, to mucus membranes or respiratory tract
Ingestion	May cause irritation, of the mouth, throat, and esophagus, Symptoms may include, nausea, vomiting, abdominal pain

Acute Tox Calculated **Oral:** 16,260 mg/kg **Dermal:** > 5,000 mg/kg **Inhaled:** > 50.0 mg/L

Acute Tox Category Not applicable (Oral >5000 mg/kg), Not applicable (Dermal > 5000 mg/kg), Not applicable (Inhaled >12.5 mg/L) Dust or Mist

Additional Info INHALATION: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure

Target Organs Eyes (Lens or cornea)

Medical Conditions Preexisting, eye, disorders may be aggravated by exposure to this product

Notes to Physician Treat symptoms

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	Germ Cell Mutagenicity	Toxic to Reproduction
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Urea Monohydrochloride	LD50	Oral	Rat	1,121 mg/kg		4 (>300, ≤2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject	Subject Latin	Result Value	Exposure Time	GHS Category
Urea Monohydrochloride	LC50	Rainbow Trout	(Oncorhynchus mykiss)	> 142 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Water Flea	(Ceriodaphnia dubia)	71.1 mg/L	48 Hours	3 (>10, ≤100 mg/L)

Presistence And Degradability No data available

Bioaccumulative Potential No data available

Mobility In Soil No data available

Other Adverse Effects May be harmful to aquatic organisms due to pH shift

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

CONTAINER DISPOSAL - Triple rinse container then offer for recycling. If not available, puncture and dispose in a sanitary landfill.

SECTION – 14 TRANSPORT INFORMATION

DOT CLASSIFICATION

UN Number	Proper Shipping Name n.o.s. (Chemicals) or "Limits"
Not Regulated	Non Regulated Material *Exempt under DOT 49 CFR 173.154 (d) (1) or (2)

Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response	Marine Pollutant	Hazard Label	Secondary
None	None	None	None	128	No		

Additional Info: Exemption (1): This material is corrosive to aluminum only. Not corrosive to mild steel or skin.

IATA CLASSIFICATION

UN Number	UN Proper Shipping Name n.o.s. (Chemicals) or "Limits"
UN 1760	Corrosive liquid n.o.s. (Urea Monohydrochloride)

Class	Packing Group	Enviro Hazard	ERG	Special Provisions	Labels Required	Subsidiary Risk	Hazard Label
8	III	No	8L		Corrosive	-	

Special precautions / marking:

SECTION – 15 REGULATORY INFORMATION

TSCA

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Urea Monohydrochloride	Yes			

REPORTABLE QUANTITIES

	Extremely Hazardous		Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
None Listed						

SARA

	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Urea Monohydrochloride	Yes	Yes				
None Listed						

RIGHT TO KNOW

	STATE												
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
None Listed													

CALIFORNIA

	WARNING! This product contains chemicals known to the state of California to cause:			
CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
None Listed					

CLEAN AIR WATER ACTS

		Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS #	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
None Listed							

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Urea Monohydrochloride	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

CHEMICAL NAME	DSL	Class	Description
Urea Monohydrochloride	Yes	E	Corrosive Material
		D-2B	Materials Causing Other Toxic Effects; Toxic Material

SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service Registry
CEIL	Ceiling Limit (15 minutes)
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act
CI	Cochlear Impairment
CNS	Central Nervous System
EC50	Concentration of a chemical that gives half-maximal response
EPA	Environmental Protection Agency
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)
FBG	Full Bunker Gear
GHS	Globally Harmonized System
HAP	California Hazardous air pollutant Clean Air Act
HMIS-A	Safety Glasses
HMIS-B	Safety glasses, gloves
HMIS-C	Safety glasses, gloves, chemical apron
HMIS-D	Face shield, gloves, chemical apron
HMIS-E	Safety glasses, gloves, dust respirator
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator
HMIS-G	Safety glasses, gloves, vapor respirator
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator
HMIS-I	Safety glasses, gloves, dust and vapor respirator
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots
HMIS-X	Ask Supervisor
HS	California Hazardous Substance under the Clean Water Act
KD	Kidney Damage (nephropathy)
LC50	A concentration that is lethal to 50% of a given species in a given time
LD50	Dose that is lethal to 50% of a given species by a given route of exposure
LEL	Lower Explosive Limit
LD	Liver Damage
NA	Not Applicable
ND	Not Determined
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NE	Not Established
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
PNS	Peripheral Nervous System
PP	California Priority Pollutant under the Clean Water Act
REL	Recommended exposure limit (NIOSH)
RT	Upper Respiratory Tract
Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit (15 minutes)
TC Lo	Lowest concentration that is toxic to a given species in a given time
TD Lo	Lowest dose that is toxic to a given species
TLV	Threshold Limit Value (ACGIH)
TP	California Toxic Pollutant under the Clean Water Act
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hours)
UEL	Upper Explosive Limit

Core Products Co., Inc.

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Print Date 12/18/2015 **Supersedes Safety Data Sheet Dated**

NOT TO BE SOLD IN THE STATE OF CALIFORNIA