Safety Data Sheet: SUPER REAM II, MM

Supercedes Date 11/10/2010 **Issuing Date** 09/13/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER REAM II, MM
Recommended use Use in drains
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5942
Chemical nature Acid mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Amber and Red **Physical State** Liquid **Odor** Pungent Solvent

GHS
Classification

Physical Hazards

Flammable liquids	Category 3
Substances/mixtures corrosive to metal	Category 1

Health Hazard

Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 2
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 1B
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H226 - Flammable liquid and vapor
H314 - Causes severe skin burns and eye damage
H311 - Toxic in contact with skin
H330 - Fatal if inhaled
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H290 - May be corrosive to metals

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P363 - Wash contaminated clothing before reuse
P260 - Do not breathe vapors or mist.
P271 - Use in a well-ventilated area.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P332 + P313 - If skin irritation occurs, get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P235 - Store in a well-ventilated place. Keep cool
P406 - Store in a corrosion-resistant container.
P233 - Keep container tightly closed
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sulfuric acid	7664-93-9	60-100
Naphtha (petroleum), heavy alkylate	64741-65-7	1-5

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist or vapors.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point 125 °F / 52 °C **Method** Seta closed cup

Flammability Limits in Air % Mixture. **Upper** 75 **Lower** 0.6

Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Reacts violently with water.

Specific hazards arising from the chemical

Combustible Liquid. Water reactive. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Contact with metals may evolve flammable hydrogen gas.

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.

NFPA **Health** 3 **Flammability** 2 **Instability** 2 **Other** W

HMIS **Health** 3 **Flammability** 2 **Instability** 2

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. Material can create slippery conditions. Prevent further leakage or spillage if safe to do so.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Neutralizing Agent Neutralize with the following product(s): .

7. HANDLING AND STORAGE

Handling Keep away from heat. Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.

Storage Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined.

Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sulfuric acid	TWA: 0.2 mg/m^3	TWA: 1 mg/m^3	IDLH: 15 mg/m^3 TWA: 1 mg/m^3

Naphtha (petroleum), heavy alkylate	100 ppm TWA	500 ppm TWA; 2900 mg/m^3 TWA	20000 mg/m^3 IDLH; 350 mg/m^3 TWA; 1800 mg/m^3 Ceiling (15 min)

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Colorless - Amber and Red	**Odor**	Pungent Solvent
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	< 1	**Specific Gravity**	1.8
Evaporation Rate	0.8 (Butyl acetate=1)	**Percent Volatile (Volume)**	8
VOC Content (%)	3.6	**VOC Content (g/L)**	64.8
Vapor Pressure	1.9 mmHg @ 100°F	**Vapor Density**	> 1 (Air = 1.0)
Solubility	Appreciable	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	230 °F / 110 °C	**Flammability (solid, gas)**	No data available
Flash Point	125 °F / 52 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	**Upper** 75 **Lower** 0.6	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid Keep away from open flames, hot surfaces, and sources of ignition

Incompatible Products Strong oxidizing agents, Strong bases, Water, Metals, Organic materials.

Hazardous Decomposition Products Carbon oxides, Sulfur oxides, Hydrogen, by reaction with metals.

Possibility of Hazardous Reactions Water reactive

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry None known

Acute Effects

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Causes skin burns.

Inhalation Harmful by inhalation. Causes burns. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs. Contains a known or suspected carcinogen.

Target Organ Effects Central nervous system, Respiratory system, Teeth, Eyes, Skin.

Aggravated Medical Conditions Neurological disorders, Respiratory disorders, Skin disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sulfuric acid	= 2140 mg/kg (Rat)	no data available	= 510 mg/m^3 (Rat) 2 h	no data available	no data available
Naphtha (petroleum), heavy	> 7000 mg/kg (Rat)	> 3000 mg/kg (Rat) >	> 5.04 mg/L (Rat) 4 h	no data available	no data available

alkylate		2000 mg/kg (Rabbit)			

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sulfuric acid	no data available	no data available	no data available	no data available	respiratory system, skin, eyes, teeth
Naphtha (petroleum), heavy alkylate	no data available	no data available	no data available	no data available	CNS

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Sulfuric acid	A2	Group 1	Known	X	not applicable
Naphtha (petroleum), heavy alkylate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sulfuric acid	no data available	LC50 > 500 mg/L Brachydanio rerio 96 h	no data available	EC50= 29 mg/L 24 h	N/A
Naphtha (petroleum), heavy alkylate	EC50 = 30000 mg/L Pseudokirchneriella subcapitata 72 h	no data available	no data available	LC50= 2 mg/L 48 h	N/A

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Corrosive liquids, flammable, n.o.s.
Hazard Class 8
Subsidiary Hazard Class 3
UN-No UN2920
Packing Group II
Reportable Quantity (RQ) Sulfuric acid, RQ kg= 470.95
Description UN2920, Corrosive liquids, flammable, n.o.s.(Sulfuric acid, Aliphatic petroleum distillates), 8, (3), PG II

TDG

Hazard Class 8
Subsidiary Hazard Class (3)
UN-No UN2920
Packing Group II

ICAO

UN-No UN2920
Proper Shipping Name Corrosive liquid, flammable, n.o.s.
Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II
Shipping Description UN2920, Corrosive liquid, flammable, n.o.s.(Sulfuric acid, Aliphatic petroleum distillates),8(3),PG II

IATA

UN-No UN2920
Proper Shipping Name Corrosive liquid, flammable, n.o.s.
Hazard Class 8
Subsidiary Hazard Class 3
Packing Group II

ERG Code 8F
Shipping Description UN2920,Corrosive liquid, flammable, n.o.s.(Sulfuric acid, Aliphatic petroleum distillates),8(3),PG II

IMDG/IMO
Proper Shipping Name Corrosive liquid, flammable, n.o.s.
Hazard Class 8
Subsidiary Hazard Class 3
UN-No UN2920
Packing Group II
EmS No. F-E, S-C
Shipping Description UN2920, Corrosive liquid, flammable, n.o.s.,(Sulfuric acid, aliphatic petroleum distillates),8(3),PG II

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies
U.S. 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

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Sulfuric acid	7664-93-9	60-100	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sulfuric acid	1000 lb	1000 lb TPQ 1000 lb
Naphtha (petroleum), heavy alkylate	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supercedes Date 11/10/2010
Issuing Date 09/13/2013
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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