

Safety Data Sheet: HVAC PACKAGE 1: 2 X INSIDE OUT (10172108), 1 X NU- COIL (10177267), FE

Supersedes Date: 06/05/2018

Issuing Date: 08/14/2020

1. PRODUCT AND COMPANY IDENTIFICATION

<p>Product Name: HVAC PACKAGE 1: 2 X INSIDE OUT (10172108), 1 X NU- COIL (10177267), FE</p> <p>Recommended use Cleaning agent</p> <p>Information on Manufacturer CHEMSEARCH FE DIV. OF NCH CORP. BOX 152170 IRVING, TX 75015</p>	<p>Product Code: 0505</p> <p>Chemical nature Alkaline Aqueous solution</p> <p>Emergency Telephone CHEMTREC® 800-424-9300</p> <p>Telephone inquiry 972-579-2477</p>
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2. HAZARD IDENTIFICATION

Color Red **Physical state** Liquid **Odor** Odorless

GHS

Classification

Physical Hazards

Corrosive to Metals

Category 1

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

Category 1

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals

Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist
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.
P363 - Wash contaminated clothing before reuse
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 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.
P390 - Absorb spillage to prevent damage.
P406 - Store in a corrosion-resistant container.
P501 - Dispose of contents and container in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	7-13
Tetrasodium ethylenediaminetetraacetate	64-02-8	5-10

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe mist.
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 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 Treat symptomatically. The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Flammability Limits in Air %: Hydrogen, by reaction with metals. **Upper:** 75 **Lower:** 4
Suitable Extinguishing Media
 Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
 Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters
 As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.
NFPA Health 3 **Flammability** 0 **Instability** 0
HMIS - Health 3 **Flammability** 0 **Physical Hazard** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
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 Pick up and transfer to properly labeled containers.
Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe mist.
Storage Store in original container. Keep in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
Storage Temperature **Minimum** 36 °F / 2 °C **Maximum** 109 °F / 43 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	10 mg/m ³ Ceiling: 2 mg/m ³

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**
- Skin Protection**
- Respiratory Protection**

Tightly fitting safety goggles. Face-shield.
 Wear suitable protective clothing, Impervious gloves.
 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

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	Red	Odor	Odorless
Odor Threshold	Not applicable	Appearance	Transparent
pH	13.3	Specific Gravity	1.175
Evaporation Rate	0.48 (Butyl acetate=1)	Percent Volatile (Volume)	81.6
VOC Content (%)	0	Vapor pressure	13.84 mmHg @ 70°F
Vapor Density	0.6	Solubility	Completely soluble
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	> 212 °F / > 100 °C
Flammability (solid, gas)	No data available	Method	Not applicable
Flash Point	Does not flash		
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	Upper: 75 Lower: 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known.
Incompatible Products	Oxidizing agents, Acids, Aldehydes, Halogenated hydrocarbon, Acid anhydrides, Organic materials, Bases, Alkalis.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Sodium oxides, Ammonia, Hydrogen, by reaction with metals, Phosgene.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

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

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.
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.

Target Organ Effects:

Eyes, Skin, Respiratory system.

Aggravated Medical Conditions

Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	No data available	No data available	No data available
Tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg (Rat) = 1658 mg/kg (Rat)	no data available	No data available	No data available	No data available

Chronic Toxicity

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Tetrasodium ethylenediaminetetraacetate	EC50 = 1.01 mg/L Desmodesmus subspicatus 72 h	LC50 = 41 mg/L Lepomis macrochirus 96 h LC50 = 59.8 mg/L Pimephales promelas 96 h	No information available	610: 24 h Daphnia magna mg/L EC50	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. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CAUSTIC ALKALI LIQUIDS, N.O.S.
Hazard Class 8
UN-No UN1719
Packing Group III
Description UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

TDG

Proper shipping name CAUSTIC ALKALI LIQUIDS, N.O.S.
Hazard Class 8
UN-No UN1719
Packing Group III
Description UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

ICAO

UN-No UN1719
Proper Shipping Name CAUSTIC ALKALI LIQUIDS, N.O.S.
Hazard Class 8
Packing Group III
Shipping Description UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

IATA

UN-No UN1719
Proper Shipping Name CAUSTIC ALKALI LIQUIDS, N.O.S.
Hazard Class 8
Packing Group III
ERG-Code 8L
Shipping Description UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

IMDG/IMO

UN proper shipping name CAUSTIC ALKALI LIQUIDS, N.O.S.
Hazard Class 8
UN Number UN1719
Packing Group III
EmS No. F-A, S-B
Description UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Pamela Starkey

Supersedes Date: 06/05/2018

Issuing Date: 08/14/2020

Reason for Revision No information available.

Glossary No information available.

List of References. No information available.

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