SAFETY DATA SHEET HVAC PACKAGE 1: 2 X INSIDE OUT (10172108), 1 X NU- COIL (10177267), FE

Supercedes Date: 08/14/2020 **Issuing Date:** 10/07/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: HVAC PACKAGE 1: 2 X INSIDE OUT (10172108), 1 X NU- COIL (10177267), FE

Product Code: 0505

Recommended use Cleaning agent

Chemical nature Alkaline Aqueous solution

Information on Manufacturer

CHEMSEARCH FE DIV. OF NCH CORP.

BOX 152170

IRVING, TX 75015

Emergency Telephone

CHEMTREC® 800-424-9300

Telephone inquiry

972-579-2477

2. HAZARD IDENTIFICATION

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

Appearance Transparent

GHS Classification

Physical Hazards

Corrosive to metals — Category 1

Health Hazard

Skin corrosion/irritation — Category 1

Serious eye damage/eye irritation — Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Labeling

Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage.

May be corrosive to metals

Precautionary statements

Wear protective gloves, protective clothing, eye protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not breathe mist.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs, get medical attention. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician if unwell.

Absorb spillage to prevent material damage

Store in a corrosion-resistant container..

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 Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable

Flammability Limits in Air %: Hydrogen, by reaction with metals. **Upper flammability limit:** 75 **Lower flammability limit:** 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 hazards** 3	**Flammability** 0	**Stability** 0
HMIS	**Health hazards** 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	CAL/OSHA PEL	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	No data available	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	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	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	**Kinematic 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	**VOC Content (g/L)**	0
Product VP (mmHg @ 70°F)	13.84	**Relative vapor density**	0.6
Solubility(ies)	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition temperature**	No data available
Initial boiling point and boiling range	> 212 °F / > 100 °C	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	**Upper flammability limit:** 75 **Lower flammability limit:** 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

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
Inhalation LC50	
ATEmix (inhalation-gas)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-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	Respiratory system, Eyes, Skin.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Others
Sodium hydroxide 1310-73-2	Not classified ECHA	Not classified ECHA	Not classified ECHA	Category 1 ECHA	No data available
Tetrasodium ethylenediaminetetraacetate 64-02-8	1658 mg/kg (Rat)	No information available	No information available	No data available	No data available

Chronic Toxicity — None known

Carcinogenicity — There are no known carcinogens in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available

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

Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to microorganisms	Crustacea	Partition coefficient
Sodium hydroxide	Category 2 ECHA	Category 2 ECHA	Not classified	Category 2 ECHA	-
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	No information available	-

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.
- **Transport hazard class(es)** 8
- **UN number or ID number** UN1719
- **Packing group** III
- **Description** UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

TDG
- **UN proper shipping name** CAUSTIC ALKALI LIQUIDS, N.O.S.
- **Transport hazard class(es)** 8
- **UN number or ID number** UN1719
- **Packing group** III
- **Description** UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

ICAO (air)
- **UN number or ID number** UN1719
- **UN proper shipping name** CAUSTIC ALKALI LIQUIDS, N.O.S.
- **Transport hazard class(es)** 8
- **Packing group** III
- **Description** UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

IATA
- **UN number or ID number** UN1719
- **UN proper shipping name** CAUSTIC ALKALI LIQUIDS, N.O.S.
- **Transport hazard class(es)** 8
- **Packing group** III
- **ERG-Code** 8L
- **Description** UN1719, CAUSTIC ALKALI LIQUIDS, N.O.S.,(SODIUM HYDROXIDE),8, PG III

IMDG
- **UN proper shipping name** CAUSTIC ALKALI LIQUIDS, N.O.S.
- **Transport hazard class(es)** 8
- **UN number or ID 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 Listed
DSL/NDSL Listed
US 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 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium hydroxide	1000 lb	-

16. OTHER INFORMATION

Prepared By Kim Franklin
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Revision Note No information available
Glossary No information available
List of References. No information available

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