

# SAFETY DATA SHEET

Issue Date 08-Mar-2018 Sid Harvey Part # 4295-08 Revision Date 08-Mar-2018

Version 1 SDS # Z0984

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier Product Name	Nu-Solve NR Condenser Coil Cleaner
<u>Other means of identification</u> Product Code Synonyms	4295-08 None
<u>Details of the supplier of the safety</u> Company Name	data sheet Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 (800) 554-5449 http://www.nucalgon.com/
Emergency telephone number Emergency Telephone	Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## **Classification**

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

## Label elements

**Emergency Overview** 

## Danger

## Hazard statements

Causes severe skin burns and eye damage



Appearance Clear Orange

Physical state Liquid

Odor Lemon

## Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

## **Precautionary Statements - Response**

Specific Treatment (See Section 4 on the SDS) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse 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 SWALLOWED: Rinse mouth. DO NOT induce vomiting Drink plenty of water Immediately call a POISON CENTER or doctor/physician

## **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations

## Hazards not otherwise classified (HNOC)

## Other Information

• Harmful to aquatic life with long lasting effects

· Harmful to aquatic life

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Surfactant Blend	Proprietary	1-5	*

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

## **4. FIRST AID MEASURES**

First aid measures		
General advice	Immediate medical attention is required.	
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.	
Inhalation	Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.	
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Any additional important symptoms and effects are described in Section 11: Toxicology Information.	
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. Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

## Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 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.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	
Environmental precautions	Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other surface water bodies. Should not be released into the environment. Dispose of according to all local city, state and federal rules and regulations.
Methods and material for containme	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling		
Advice on safe handling	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.	
Incompatible materials	Incompatible with strong acids and bases. Incompatible with oxidizing agents.	
8 EXPOSURE CONTROLS/PERSONAL PROTECTION		

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m <sup>3</sup>
		(vacated) TWA: 120 mg/m <sup>3</sup>	-
		(vacated) S*	
		S*	
2-(2-butoxyethoxy)ethanol	TWA: 10 ppm inhalable fraction	-	-
112-34-5	and vapor		

NIOSH IDLH Immediately Dangerous to Life or Health

#### Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

## Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations & Ventilation systems.
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## Individual protection measures, such as personal protective equipment

- Eye/face protectionWear safety glasses with side shields (or goggles). Wear a face shield if splashing hazard<br/>exists.
- **Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- Respiratory protectionIf exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved<br/>respiratory protection should be worn. Positive-pressure supplied air respirators may be<br/>required for high airborne contaminant concentrations. Respiratory protection must be<br/>provided in accordance with current local regulations.
- **General Hygiene** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state
Appearance
Color
Odor
Odor threshold

Liquid Clear Orange Orange Lemon No Information available

Property	Va
pH	12.
Specific Gravity	1.0
Viscosity	<2
Melting point/freezing point	No
Flash point	No
Boiling point / boiling range	212
Evaporation rate	No
Flammability (solid, gas)	No
Flammability Limits in Air	
Upper flammability limit:	No
Lower flammability limit:	No
Vapor pressure	No

## <u>Values</u> 12.0 - 13.0 1.008 <25 cP @ 25°C No Information available None 212 °F No Information available No data available

No Information available No Information available No Information available Remarks • Method

Vapor density	No Information available
Water solubility	Complete
Partition coefficient	No Information available
Autoignition temperature	No Information available
Decomposition temperature	No Information available

## **Other Information**

 Density Lbs/Gal
 8.40

 VOC Content (%)
 1

## **10. STABILITY AND REACTIVITY**

## Reactivity

No data available

## Chemical stability

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to avoid**

Exposure to air or moisture over prolonged periods.

## **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Avoid breathing vapors or mists. Breathing of vapor can cause respiratory irritation and inflammation. Breathing of mist or liquid can cause burns to the respiratory tract.
Eye contact	Avoid contact with eyes. Corrosive. Causes severe eye damage.
Skin Contact	Avoid contact with skin. Corrosive. Contact with skin may cause severe irritation and burns.
Ingestion	Do not taste or swallow. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Surfactant Blend	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

## Information on toxicological effects

#### Symptoms

No Information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity	Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to
	eyes.
Sensitization	No Information available.
Germ cell mutagenicity	No Information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
ACGIH (American Conference A3 - Animal Carcinogen	e of Governmental Industrial Hygienists)

IARC (International Agency for Res Group 3 -Not classifiable as a human		
Reproductive toxicity	No Information available.	
STOT - single exposure	No Information available.	
STOT - repeated exposure	No Information available.	
Chronic toxicity	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.	
Aspiration hazard	No Information available.	
Numerical measures of toxicity - Product Information		
Unknown Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity	
The following values are calculated based on chapter 3.1 of the GHS document .ATEmix (oral)50,000.00ATEmix (dermal)50,000.00		
12. ECOLOGICAL INFORMATION		

## **Ecotoxicity**

0.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Surfactant Blend	-	1.2: 96 h Oncorhynchus mykiss mg/L LC50	5.3: 48 h Daphnia mg/L LC50
Sodium Metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	216: 96 h Daphnia magna mg/L EC50
2-butoxyethanol 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
2-(2-butoxyethoxy)ethanol 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50

## Persistence and degradability

No Information available.

#### **Bioaccumulation**

Bioaccumulative potential.

Other adverse effects

No Information available

## **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

## 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT	Not regulated	
TDG	Not regulated	

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## 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	
Aguto health hazard	

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

## **California Proposition 65**

This product has been evaluated and does not require warning labeling under California Proposition 65.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-butoxyethanol 111-76-2	Х	Х	Х
2-(2-butoxyethoxy)ethanol 112-34-5	Х	-	Х

U.S. EPA Label Information

## EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION				
NFPA	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical
HMIS_	Health hazards 3	Flammability 0	Physical hazards 0	Properties - Personal protection B

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Revision Note	
No Information available	
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet