



# Material Safety Data Sheet

## BIOCLEAN-331PLUS

### 1. Product and company identification

**Product Name:** BIOCLEAN-331PLUS ® Industrial Cleaning and Descaling Solution

**Product Use:** BIOCLEAN-331PLUS ® Industrial Cleaning and Descaling Solution is liquid applied cleaner that removes soot, grease, dirt, all kinds of deposits, metal particles and industrial pollutions from concrete, brick, pavers, metals and other surfaces. Low odor and ease of application make it particularly suitable for various industrial and construction surfaces

**Manufacturer/Supplier:** Nano Faraz Sepahan Co.  
Unit No.3, Fanafarini 2 building, Isfahan Science & technology Town, Isfahan University of Technology Blvd, Isfahan, IRAN

**Phone Number:** +983133932431

**Emergency Phone:** +989130844702

**Date of Preparation:** 02/19/2019

### 2. Hazards identification

CODE	HAZARD STATEMENT	HAZARD CLASS	CATEGORY	SIGNAL WORD
H290	May be corrosive to metal.	Corrosive to metal	1	Warning
H303	May be harmful if swallowed.	Acute toxicity, oral	5	Warning
H316	Causes minor skin irritation.	Skin corrosion/irritation	3	Warning
H320	Causes eye irritation.	Serious eye damage/irritation	2B	Warning
H335	May cause respiratory	Respiratory tract	3	Warning



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	irritation.	irritation		
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### PRECAUTIONARY STATEMENTS

#### PREVENTION

**P101:** Keep out of reach of children.

**P234:** Keep only in original container.

**P264:** Wash hands thoroughly after handling.

#### RESPONSE

**P312:** Call a POISON CENTER or physician if you feel unwell.

**P390:** Absorb spillage to prevent material damage.

**P305+P351:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P332+P313:** IF SKIN irritation occurs: Get medical advice/attention.

**P337+P313:** IF eye irritation persists: Get medical advice/attention.

#### STORAGE

**P406:** Store in a corrosive resistant container with a resistant inner liner.

### 3. Composition/information on ingredients

HAZARD COMPONENTS	CONCENTRATION	OSHA PEL	ACGH TLV
Urea Monohydrochloride	25%-30%	NE	NE

### 4. First-aid measures

**EYES:** SYMPTOMS OF EXPOSURE: Eye irritation or burning sensation to the eyes.

RESPONSE MEASURES: Flush eyes thoroughly with large amounts of water for 15 minutes. Seek medical attention if symptoms persist.

**SKIN:** SYMPTOMS OF EXPOSURE: Minor skin irritation/dermatitis.



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**RESPONSE MEASURES:** Wash effected area with soap and water. Remove contaminated clothes. Seek medical attention if symptoms persist.

**INGESTION:** SYMPTOMS OF EXPOSURE: Gastric or intestinal distress with nausea, vomiting, and diarrhea.

**RESPONSE MEASURES:** Do not induce vomiting. If vomiting occurs keep airway clear. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**INHALATION:** SYMPTOMS OF EXPOSURE: Coughing, Breathing difficulty

**RESPONSE MEASURES:** Remove to fresh air. Administer oxygen; seek medical help if symptoms persist.

### 5. Fire-fighting measures

Product is non-flammable and non-combustible. Under normal conditions of use, this product will not cause or support fire. If fire occurs, use control measures for surrounding materials.

### 6. Accidental release measures

Wear protective equipment, keep unprotected persons away. Contain and absorb spill. Wash area with soap and water. Dispose of response debris in accordance with applicable regulations.

### 7. Handling and storage

• DO NOT STORE IN DIRECT SUNLIGHT. Do not store at temperatures above 120 °F. Protect from freezing. Avoid use in confined areas. Ensure adequate ventilation. Unsuitable storage container: Aluminum.



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### 8. Exposure controls/personal protection

In the event natural ventilation is inadequate, provide mechanical ventilation/exhaust to reduce airborne concentration.

Protective equipment: Wear nitrile gloves, eye and mouth protection, minimize skin contact.



### 9. Physical and chemical properties

<b>PHYSICAL STATE</b>	Liquid
<b>ODOR</b>	Slight Acrid
<b>SPECIFIC GRAVITY</b>	1.2
<b>BOILING POINT</b>	212 °F
<b>FREEZING POINT</b>	Approx. 32 °F
<b>pH LEVEL</b>	1.0
<b>EVAPORATION RATE</b>	NA
<b>APPEARANCE</b>	Clear liquid
<b>AUTO-IGNITION TEMP</b>	NA
<b>VOC (EPA METHOD 24)</b>	ND



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FLASHPOINT	NA
VAPOR DENSITY	ND
FLAMMABLE LIMITS	NA

### 10. Stability and reactivity

**STABILITY:** Stable

**INCOMPATIBLES (materials to avoid):** Reacts with alkali and hypochlorites.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition produces hydrogen chloride, chlorine and hydrogen gases.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. Toxicological information

No information available. No ingredients are known carcinogens.

### 12. Ecological information

Not available.

### 13. Disposal considerations

**Disposal Instructions:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

### 14. Transport information

Corrosive Liquid, N.O.S.(Urea Hydrochloride), 8, UN 1760, PG II

### 15. Regulatory information



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**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16. Other information

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

#### HMIS RATING

2	HEALTH
0	FLAMMABILITY
0	REACTIVITY
X	PPE

CHECK ALL THAT APPLY

<input checked="" type="checkbox"/>	SAFETY GLASSES	<input checked="" type="checkbox"/>	GLOVES
<input checked="" type="checkbox"/>	SAFETY GOGGLES	<input checked="" type="checkbox"/>	APRON
<input checked="" type="checkbox"/>	FACE SHIELD	<input type="checkbox"/>	FULL BODY SUIT
<input type="checkbox"/>	DUST RESPIRATOR	<input type="checkbox"/>	BOOTS
<input type="checkbox"/>	VAPOR RESPIRATOR	<input type="checkbox"/>	AIRLINE MASK
<input type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	OTHER-----



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### NFPA RATING

#### HEALTH HAZARD BLUE DIAMOND

- 4 – Deadly
- 3 – Extreme Danger
- 2 – Hazardous
- 1 – Slightly Hazardous
- 0 – Normal Material

#### SPECIFIC HAZARD WHITE DIAMOND

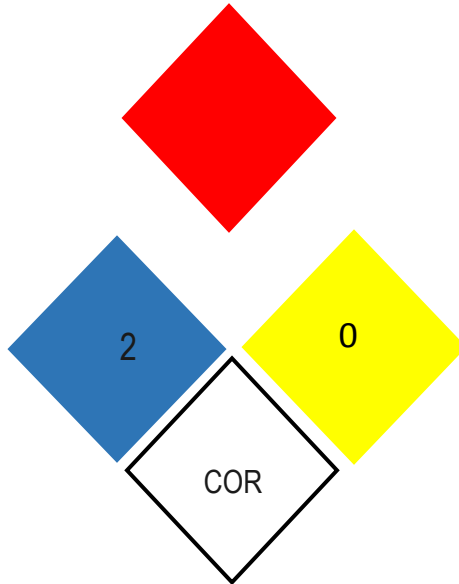
- ACID – Acid
- ALK – Alkali
- COR – Corrosive
- OXY – Oxidizer
- Radioactive

**Version #: 1.0**

**Prepared by:** Nano faraz sepaha Co.

**Phone:** +98(0)3133932431

[www.nanofaraz.com](http://www.nanofaraz.com)



#### FIRE HAZARD RED DIAMOND

##### Flash Points

- 4 – Below 73 °F
- 3 – Below 100 °F
- 2 – Above 100 °F  
not exceeding 200 °F
- 1 – Above 200 °F
- 0 – Will not burn.

#### REACTIVITY YELLOW DIAMOND

- 4 – May Detonate
- 3 – Shock & Heat may detonate
- 2 – Violent Chemical Change
- 1 – Unstable
- 0 – Stable