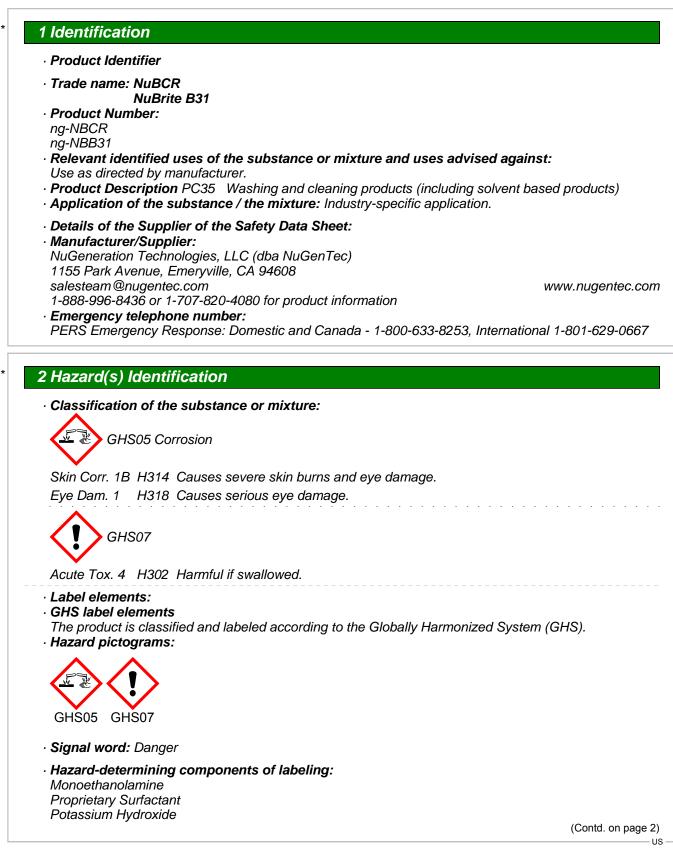


OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/08/2016

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Trade name: NuBCR NuBrite B31

· Hazard statem	ents:				
H302 Harmful if swallowed.					
H314 Causes s	H314 Causes severe skin burns and eye damage.				
· Precautionary					
P260	Do not breathe dusts or mists.				
P280	Wear eye protection / face protection.				
P264	Wash thoroughly after handling.				
P270	Do not eat, drink or smoke when using this product.				
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with				
	water/shower.				
P305+P351+P3	338 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 POISON CENTER/doctor.				
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.				
P321	Specific treatment (see supplementary first aid instructions on this Safety Data				
	Sheet).				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P363	Wash contaminated clothing before reuse.				
P301+P330+P3	331 If swallowed: Rinse mouth. Do NOT induce vomiting.				
P405	Store locked up.				
P501	Dispose of contents/container in accordance with local/regional/national/				
	international regulations.				
· Unknown acut					
	ture consists of component(s) of unknown toxicity.				
· Classification					
· NFPA ratings (scale 0 - 4)				
	ealth = 2				
	re = 0				
Re Re	eactivity = 0				
HMIS-ratings (scale 0 - 4)				
HEALTH 2 H	lealth = 2				
	ire = 0				
the second se	Peactivity = 0				

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with non-hazardous additions.

 Dangerous Compon 	ents:	
CAS: 141-43-5	Monoethanolamine	15-35%
RTECS: KJ 5775000	Skin Corr. 1B, H314; () Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Flam. Liq. 4, H227	
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	Proprietary Surfactant Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Acute 2, H401; Aquatic Chronic 3, H412	3.9%
CAS: 1310-58-3 RTECS: TT 2102000	Potassium Hydroxide ♦ Skin Corr. 1A, H314; ♦ Acute Tox. 4, H302	<i>≤</i> 2.5%
	Proprietary Surfactant	1.5%
	Proprietary Hydrotrope ♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	1%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures:

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

· After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

 After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting without medical advice. If vomiting does occur, repeat fluid administration If swallowed and symptoms occur, consult a doctor.

- Information for doctor:
- *Most important symptoms and effects, both acute and delayed:* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media:
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture: No further relevant information available.

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· Advice for firefighters:

• Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep people at a distance and stay upwind.
 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/surface or ground water. • **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the collected material according to regulations. • **Reference to other sections:**
- Reference to other sections:
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and Storage

- · Handling
- **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in the original container.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

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· Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

141-43-5 Monoethanolamine

PEL Long-term value: 6 mg/m³, 3 ppm

- REL Short-term value: 15 mg/m³. 6 ppm Long-term value: 8 mg/m³, 3 ppm
- TLV Short-term value: 15 mg/m³, 6 ppm Long-term value: 7.5 mg/m³, 3 ppm

1310-58-3 Potassium Hydroxide

- REL Ceiling limit value: 2 mg/m³
- TLV Ceiling limit value: 2 mg/m³

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.

Breathing equipment: Not required.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- · Penetration time of glove material: The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
- · Eve protection:



Goggles recommended during refilling.

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· Body protection:



Protective work clothing

 Information on basic physical and 	chemical properties
 General Information Appearance: 	
Form:	Liquid
Color:	Wine Red
· Odor:	Mild
· Odor threshold:	Not determined.
· pH-value @ 20 °C (68 °F):	11.5
Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	385 °C (725 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.0 Vol %
Upper:	0.0 Vol %
· Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density @ 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)
Relative density:	Not determined.
· Vapor density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with:	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.



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· Solvent content:		
Organic solvents:	12.0 %	
Water:	77.4 %	
VOC content:	12.0 %	
Solids content:	4.4 %	
 Other information: 	No further relevant information available.	

10 Stability and Reactivity

· Reactivity: No further relevant information available.

- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects:

· Acute toxicity:

Oral	LD50	2050 mg/kg (rat)
Dermal	LD50	1000 mg/kg (rabbit)
Proprieta	ry Surfactant	
Oral	LD50	2000-5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
1310-58-3	3 Potassium Hy	droxide
Oral	LD50	273 mg/kg (rat)
Inhalative	LC50/96 hours	80 mg/l (daphnia)
Proprieta	ry Hydrotrope	·
Oral	LD50	>7.200 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit)
	rritant effect: kin: No irritating	effect. ous eye irritation.

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Irritant

- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):
- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

Proprietary Surfactant

EC50 1-10 mg/l (Green algae)

6.5 mg/l (daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects: No further relevant information available.

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13 Disposal Considerations

· Waste treatment methods:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings

· Recommendation:

Disposal must be made according to official regulations. Dispose of as unused product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number:	
· DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
 UN proper shipping name: DOT, ADN, IMDG, IATA 	Non-Regulated Material
 Transport hazard class(es): 	
· DOT, ADR, ADN, IMDG, IATA · Class:	Non-Regulated Material
 Packing group: DOT, ADR, IMDG, IATA 	Non-Regulated Material
· Environmental hazards:	Not applicable.
 Special precautions for user: 	Not applicable.
 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code: 	of Not applicable.
· UN "Model Regulation":	Non-Regulated Material

15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
 SARA (Superfund Amendments and Reauthorization):

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

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· California Proposition 65: · Chemicals known to cause cancer: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: None of the ingredients are listed. · New Jersey Right-to-Know List: 141-43-5 Monoethanolamine 1310-58-3 Potassium Hydroxide · New Jersey Special Hazardous Substance List: 141-43-5 Monoethanolamine CO, F2 1310-58-3 Potassium Hydroxide CO, R1 · Pennsylvania Right-to-Know List: 141-43-5 Monoethanolamine 1310-58-3 Potassium Hydroxide · Pennsylvania Special Hazardous Substance List: 1310-58-3 Potassium Hydroxide Ε · Carcinogenic categories: · EPA (Environmental Protection Agency): None of the ingredients are listed. · TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed. · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS05 GHS07 · Signal word: Danger · Hazard-determining components of labeling: Monoethanolamine Proprietary Surfactant

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· Hazard statemen	ts:			
H302 Harmful if swallowed.				
H314 Causes severe skin burns and eye damage.				
· Precautionary sta	atements:			
P260	Do not breathe dusts or mists.			
P280	Wear eye protection / face protection.			
P264	Wash 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/shower.			
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 POISON CENTER/doctor.			
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
P321	Specific treatment (see supplementary first aid instructions on this Safety Data			
	Sheet).			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P363	Wash contaminated clothing before reuse.			
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with local/regional/national/			
	international regulations.			
· National regulation	ons:			
The preduct is a	which to be clearly a conversion with the latest version of the regulations on			

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 08/08/2016 / -

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

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[•] Abbreviations and acronyms:

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NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Éye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

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