

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

### Issue date 08/09/2016

Reviewed on 08/09/2016

ue date 08/09	<i>"2010</i>	
Identifica	tion	
· Product Ide	entifier	
· Trade name	e: NuCool	
	imber: ng-NC	
	lentified uses of the substance of the s	r mixture and uses advised against:
· Product De		
	etalworking Coolant - NuCool Mist, <b>o of the substance / the mixture</b> :	NuKool Mist, Misting Coolant for drilling and taping. Industry-specific application.
	he Supplier of the Safety Data Sh	neet:
	r <b>er/Supplier:</b> on Toobhologion, LLC (dbo NuCon	
	on Technologies, LLC (dba NuGen Avenue, Emeryville, CA 94608	
salesteam@	Pnugentec.com	www.nugentec.com
	8436 or 1-707-820-4080 for product	t information
	relephone number: reency Response: Domestic and Card Card Card Card Card Card Card Car	anada - 1-800-633-8253, International 1-801-629-0667
Hazard(s	) Identification	
· Classificati	on of the substance or mixture:	
GI	HS08 Health hazard	
GI		
Muta. 1B		S.
	HS08 Health hazard	S.
Muta. 1B	HS08 Health hazard H340 May cause genetic defects	
Muta. 1B Carc. 1B	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer.	
Muta. 1B Carc. 1B Repr. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer.	
Muta. 1B Carc. 1B Repr. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the	
Muta. 1B Carc. 1B Repr. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the	e unborn child.
Muta. 1B Carc. 1B Repr. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the	e unborn child.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the	e unborn child.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama	e unborn child.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama	e unborn child.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Skin Irrit. 2	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama	e unborn child. ge.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Skin Irrit. 2	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama HS07 H315 Causes skin irritation. 1 H317 May cause an allergic skir	e unborn child. ge.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Skin Irrit. 2 Skin Sens. Label elem GHS label e	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama HS07 H315 Causes skin irritation. 1 H317 May cause an allergic skir ents: elements	ge.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Skin Irrit. 2 Skin Sens. Label elem. GHS label e The product	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama HS07 H315 Causes skin irritation. 1 H317 May cause an allergic skir ents: elements t is classified and labeled according	e unborn child. ge.
Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Skin Irrit. 2 Skin Sens. Label elem GHS label e	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama HS07 H315 Causes skin irritation. 1 H317 May cause an allergic skir ents: elements t is classified and labeled according	ge.
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Muta. 1B Carc. 1B Repr. 1 Eye Dam. 1 Official Content Skin Irrit. 2 Skin Sens. Label elem. GHS Iabel of The product Hazard pict	HS08 Health hazard H340 May cause genetic defects H350 May cause cancer. H360 May damage fertility or the HS05 Corrosion H318 Causes serious eye dama HS07 H315 Causes skin irritation. 1 H317 May cause an allergic skir ents: elements tis classified and labeled according tograms:	ge.
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Trade name: NuCo	201
· Signal word: [	Danger
· Hazard-detern	nining components of labeling:
Proprietary Sur	
	dro-1,3,5tris (2-hydroxyethyl)-s-triazine)
Proprietary Sur	
Proprietary Sol	
· Hazard statem	
H315 Causes s	
	serious eye damage.
	se an allergic skin reaction.
	se genetic defects.
H350 May caus	
	hage fertility or the unborn child.
· Precautionary	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P305+P351+P	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.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· Unknown acut	te toxicity:
3 % of the mixt	ure consists of component(s) of unknown toxicity.
<ul> <li>Classification</li> </ul>	
· NFPA ratings	(scale 0 - 4)
<b></b>	
	ealth = 2 $ire = 0$
	re = 0 eactivity = 0
	= 0
· HMIS-ratings (	'scale 0 - 4)
HEALTH 2 H	Health = 2
	Fire = 0
	Reactivity = 0
	-
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· 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	Components:
-------------	-------------

	Proprietary Surfactant	3%
	Met. Corr.1, H290; Skin Corr. 1C, H314; Eye Dam. 1, H318; () Acute Tox. 4, H302	9
	Proprietary Surfactant	1.5%
	Skin Corr. 1C, H314; (1) Acute Tox. 4, H302; Acute Tox. 4, H312	
	Proprietary Amine	1.2%
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 3, H412	
CAS: 1310-58-3	Potassium Hydroxide	≤2.5%
RTECS: TT 2102000	 Skin Corr. 1A, H314; 🗘 Acute Tox. 4, H302	
CAS: 4719-04-4	2,2',2"-(hexahydro-1,3,5tris (2-hydroxyethyl)-s-triazine)	<i>≤</i> 2.5%
	Acute Tox. 3, H301; Acute Tox. 3, H331; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360; STOT SE 1, H370;	
	STOT RE 1, H372; 🚯 Aquatic Acute 1, H400; Aquatic Chronic 2, H411;	
	Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	Proprietary Solvent	0.15%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; (1) Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	

### · 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:

· General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· After inhalation:

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

· After skin contact:

*Immediately wash with water and soap and rinse thoroughly. If skin irritation or a rash 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.

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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.
- · 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. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Dispose of the collected material according to regulations.
- 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. Open and handle receptacle with care. Prevent formation of aerosols.

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- Information about protection against explosions and fires: Keep protective respiratory device available.
- · 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.

· 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.

#### 1310-58-3 Potassium Hydroxide

REL Ceiling limit value: 2 mg/m<sup>3</sup>

TLV Ceiling limit value: 2 mg/m<sup>3</sup>

#### **Proprietary Solvent**

TWA Short-term value: 10 mg/m<sup>3</sup>

· 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.
- Keep away morn noousiuns, beverages and reed.
- Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- Avoid contact with the eyes and skin.
- · 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.

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#### · 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.

· Eye protection:



Tightly sealed goggles

### · Body protection:



Protective work clothing

General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Blue
Odor:	Light
Odor threshold:	Not determined.
pH-value @ 20 °C (68 °F):	10.5
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:	305 °C (581 °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 %

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· Density @ 20 °C (68 °F):	1.046 g/cm³ (8.729 lbs/gal)	
· Relative density:	Not determined.	
· Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
· Solubility in / Miscibility with:		
Water:	Fully miscible.	
	-	
· Partition coefficient (n-octanol/wa	ater): Not determined.	
· Viscosity:		
Dynamic @ 20 °C (68 °F):	3 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	1.4 %	
Water:	92.2 %	
VOC content:	1.4 %	
	4.4.0/	
Solids content:	1.4 %	
<ul> <li>Other information:</li> </ul>	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:

Proprieta	ary Surfactant		
Oral	LD50	>1410 mg/kg (rat)	
Dermal	LD50	2370 mg/kg (rabbit)	
1310-58-	3 Potassium Hy	droxide	
Oral	LD50	273 mg/kg (rat)	
Inhalative	LC50/96 hours	80 mg/l (daphnia)	
4719-04-	4 2,2',2"-(hexah	ydro-1,3,5tris (2-hydroxyethyl)-s-triazine)	
Oral	LD50	535-580 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
		I	(Contd. on page 8



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Oral	ary Solvent	
	LD50	4400 mg/kg (rat) Remarks: Behavioral: Change in motor activity (specific assay, Respiratory disorder Skin and Appendages: Other: Hair
Dermal	LD50	>5000 mg/kg (rabbit)
On the s Irritant to May cau On the e Strong in Causes s Sensitiz Addition The proo preparati Irritant Carcinog	skin and mu se an allergic ye: ritant with the serious eye ir <b>ation:</b> Sensit <b>al toxicolog</b> duct shows t ions:	cous membranes. skin reaction. danger of severe eye injury.
<b>Carcinog</b> <b>IARC (In</b> Group 1 Group 2 Group 2 Group 3 Group 4	- Carcinogen A - Probably ( B - Possibly c - Not classifie - Probably no	Agency for Research on Cancer): ic to humans carcinogenic to humans arcinogenic to humans able as to its carcinogenicity to humans of carcinogenic to humans
Carcino IARC (In Group 1 Group 2/ Group 2 Group 3 Group 4 Proprieta	ternational J - Carcinogen A - Probably o B - Possibly o - Not classifie - Probably no ary Solvent	Agency for Research on Cancer): ic to humans carcinogenic to humans carcinogenic to humans able as to its carcinogenicity to humans of carcinogenic to humans
Carcino IARC (In Group 1 Group 2) Group 2 Group 3 Group 4 Proprieta NTP (Na	ternational A - Carcinogen A - Probably o B - Possibly o - Not classifia - Probably no ary Solvent tional Toxic	Agency for Research on Cancer): ic to humans carcinogenic to humans earcinogenic to humans able as to its carcinogenicity to humans of carcinogenic to humans of carcinogenic to humans
Carcino IARC (In Group 1 Group 2 Group 2 Group 3 Group 4 Proprieta NOR of	ternational A - Carcinogen A - Probably o B - Possibly o - Not classifie - Probably no ary Solvent tional Toxic the ingredien	Agency for Research on Cancer): ic to humans carcinogenic to humans earcinogenic to humans able as to its carcinogenicity to humans of carcinogenic to humans ology Program): ts are listed.
Carcino IARC (In Group 1 Group 2 Group 2 Group 3 Group 4 Proprieta NTP (Na None of OSHA-C	ternational A - Carcinogen A - Probably o B - Possibly o - Not classifie - Probably no ary Solvent tional Toxic the ingredien	Agency for Research on Cancer): ic to humans carcinogenic to humans able as to its carcinogenicity to humans ot carcinogenic to humans bit carcinogenic to humans to arcinogenic to humans bit carcinogenic to humans bit

Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

4719-04-4 2,2',2"-(hexahydro-1,3,5--tris (2-hydroxyethyl)-s-triazine) EC50 (static) 119 mg/l (daphnia) (OECD Test Guideline 203, 96 hour, Static Test) 26.1 mg/l (Water flea) **Proprietary Solvent** 0.36 mg/l (daphnia) (OECD Test Guideline 202) EC50

· Persistence and degradability: No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

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- *Mobility in soil:* No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- General notes:
- Generally not hazardous for water. Harmful to aquatic organisms
- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

### 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	
<ul> <li>UN proper shipping name:</li> <li>DOT, ADN, IMDG, IATA</li> </ul>	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 MARPOL73/78 and the IBC Code:	<i>I</i> I of Not applicable.	
· UN "Model Regulation":	Non-Regulated Material	

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### 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.
- · 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:
   Proprietary Amine
  - 1310-58-3 Potassium Hydroxide
- · New Jersey Special Hazardous Substance List:
- 1310-58-3 Potassium Hydroxide
- · Pennsylvania Right-to-Know List:
- Proprietary Amine
- 1310-58-3 Potassium Hydroxide
- Pennsylvania Special Hazardous Substance List:
- 1310-58-3 Potassium Hydroxide
- · 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).

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Trade name: NuCool · Hazard pictograms: GHS05 GHS07 GHS08 · Signal word: Danger · Hazard-determining components of labeling: Proprietary Surfactant 2,2',2"-(hexahydro-1,3,5--tris (2-hydroxyethyl)-s-triazine) Proprietary Surfactant Proprietary Solvent · Hazard statements: H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. · Precautionary statements: Avoid breathing dust/fume/gas/mist/vapors/spray. P261 P280 Wear protective gloves. P280 Wear eye protection / face protection. Wash thoroughly after handling. P264 P272 Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. P201 Do not handle until all safety precautions have been read and understood. P202 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. P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet). P363 Wash contaminated clothing before reuse. P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. · National regulations: 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.

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Trade name: NuCool

### **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: 08/09/2016 / - Abbreviations and acronyms: 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 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 Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1B: Respiratory sensitisation - Category 1B Skin Sens. 1: Skin sensitisation - Category 1 Muta. 1B: Germ cell mutagenicity - Category 1B Carc. 1B: Carcinogenicity – Category 1B Repr. 1: Reproductive toxicity – Category 1 Repr. 1B: Reproductive toxicity - Category 1B STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term 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 us