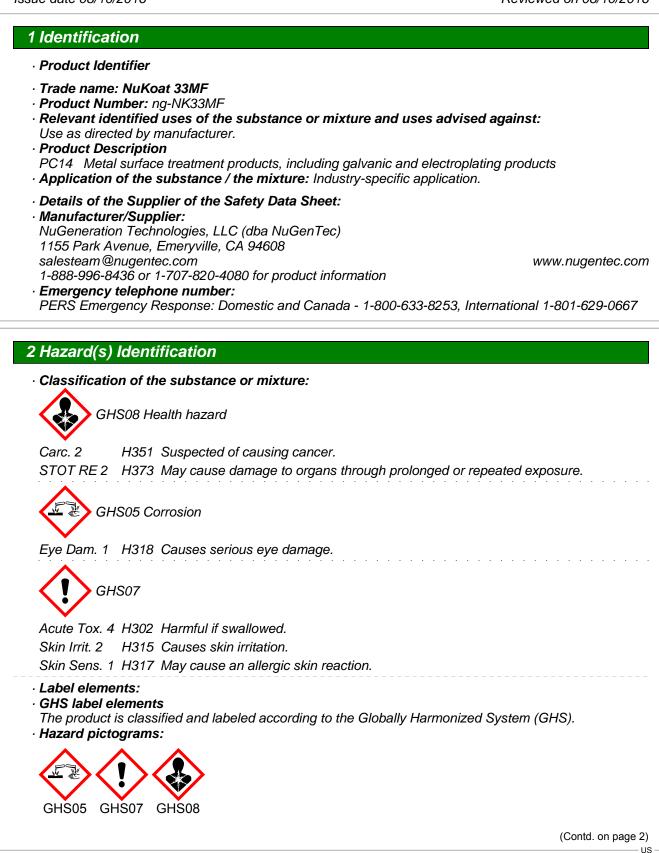


OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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

Issue date 08/10/2016

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nde name: NuKoat 33MF		
· Signal word: L	Danger	
· Hazard-detern	nining components of labeling:	
Proprietary Hyd	drotrope	
Proprietary Sal		
Phosphoric aci		
Proprietary Sal		
Hazard staten		
H302 Harmful I		
H315 Causes s	skin irritation.	
H318 Causes s	serious eye damage.	
	se an allergic skin reaction.	
	ed of causing cancer.	
	se damage to organs through prolonged or repeated exposure.	
Precautionary		
P260	Do not breathe dust/fume/gas/mist/vapors/spray.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
P280	Wear protective gloves.	
P280	Wear eye protection / face protection.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
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.	
	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	
Baaa	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.	
P314	Get medical advice/attention if you feel unwell.	
P330	Rinse mouth.	
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.	
Classification	system:	
NFPA ratings		
	ealth = 2	
	ire = 0	
V <i>R</i>	eactivity = 0	
• •	(Contd. on page 2)	

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· HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE0Fire = 0REACTIVITY0Reactivity = 0

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

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture: consisting of the following components.

· Dangerous Components:

· Dangerous components.		
CAS: 7664-38-2	Phosphoric acid	15-35%
RTECS: TB 6300000	🚸 Met. Corr.1, H290; Skin Corr. 1B, H314	
	Proprietary Hydrotrope	7.5%
	😔 Eye Dam. 1, H318	
	Proprietary Salt	3.5%
	 Expl. 1.1, H201; Carc. 2, H351; STOT RE 2, H373; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317 	
	Proprietary Salt	1.2%
	🚸 Eye Irrit. 2A, H319; Skin Sens. 1, H317	1
Additional information		

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. If vomiting does occur, repeat fluid administration Seek immediate medical advice.

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- · 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: CO_{2} , 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:

Mouth respiratory protective device.

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. Ensure televate ventulation.
- Environmental precautions: Dilute with plenty of water. 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). 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. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.

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- · Conditions for safe storage, including any incompatibilities:
- Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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

7664-38-2 Phosphoric acid

PEL Long-term value: 1 mg/m³

REL Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

TLV Short-term value: 3 mg/m³ Long-term value: 1 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.

- 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.

· 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

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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

9 Physical and Chemical Properties

 Information on basic physical and General Information 	chemical properties
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Light yellow Mild Not determined.
· pH-value @ 20 °C (68 °F):	3.8
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. 100 °C (212 °F)
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
 Density @ 20 °C (68 °F): Relative density: Vapor density: 	1.14 g/cm³ (9.513 lbs/gal) Not determined. Not determined.
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Evaporation rate:	Not determined.	
Solubility in / Miscibility with:		
Water:	Fully miscible.	
Partition coefficient (n-octanol/w	ater): Not determined.	
Viscosity:		
Dynamic @ 20 °C (68 °F):	1 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	73.2 %	
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:

· LD/LC50 values that are relevant for classification:

7664-38-2 Phosphoric acid

Oral LD50 >5000 mg/kg (rat) (OECD Test Guideline 423)

Dermal LD50 2740 mg/kg (rabbit)

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Excitement.

· Primary irritant effect:

• On the skin:

Irritant to skin and mucous membranes. May cause an allergic skin reaction.

• On the eye:

Strong irritant with the danger of severe eye injury.

Causes serious eye irritation.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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Harmful 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: The hazards for the aquatic environment are unknown.
- Aquatic toxicity: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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.

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

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 MARPOL73/78 and the IBC Code:	II 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):
- 7664-38-2 Phosphoric acid

· 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.

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· New Jersey Right-to-Know List:

7664-38-2 Phosphoric acid

· New Jersey Special Hazardous Substance List:

7664-38-2 Phosphoric acid

· Pennsylvania Right-to-Know List:

7664-38-2 Phosphoric acid

· Pennsylvania Special Hazardous Substance List:

7664-38-2 Phosphoric acid

· 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:



· Signal word: Danger

· Hazard-determining components of labeling: Proprietary Hydrotrope Proprietary Salt Phosphoric acid Proprietary Salt · Hazard statements: H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eve damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. · Precautionary statements: P260 Do not breathe dust/fume/gas/mist/vapors/spray. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves. Wear eye protection / face protection. P280 P264 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. P270 Contaminated work clothing must not be allowed out of the workplace. P272 Obtain special instructions before use. P201

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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.
P301+P312	IF SWALLÓWED: Call a POISON CENTER/doctor if you feel unwell.
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.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
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.

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.

 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) 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 Expl. 1.1: Explosives – Division 1.1 Met. Corr.1: Corrosive to metals - Category 1 (Contd. on page 12)

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Acute Tox. 4: Acute toxicity – Category 4 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 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 • * **Data compared to the previous version altered.** SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106