

Material Safety Data Sheet

Material Name: ANOSEAL 1000 BULK

ID: 232276 / IDH No. 767966

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name ANOSEAL 1000 BULK

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
373-02-4	Nickel acetate	10-30
64-19-7	Acetic acid	1-5
Proprietary	Surfactant(s)	1-5

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Nickel soluble compounds, Nickel compounds, Nickel organic compounds, Nickel salts, Nickel, inorganic compounds, Nickel insoluble compounds.

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! This product may be severely irritating to the eyes. This product may cause irritation to the skin. This product may cause irritation to the respiratory system.

Eye Contact:

This product may be severely irritating to the eyes. Symptoms include itching, burning, redness and tearing.

Skin Contact:

This product may cause irritation to the skin. This product contains a component that may cause allergic skin reactions.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation:

This product may cause irritation to the respiratory system.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact:

Immediately take off all contaminated clothing. If irritation persists, get medical attention.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

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*** Section 5 - Fire Fighting Measures ***

Flash Point: Not applicable

Method Used: Not applicable

Flammability Classification: Not applicable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Fire & Explosion Hazards:

This product is an aqueous mixture which will not burn.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media:

Use methods for the surrounding fire.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up. Block any potential routes to water systems.

Clean-Up Procedures:

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Do not take internally. For industrial use only. Mix well before using.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Protect from freezing. Ship and store above 50 °F.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Nickel acetate (373-02-4)

OSHA: 1 mg/m³ TWA (as Ni) (related to Nickel, soluble compounds)

NIOSH: 0.015 mg/m³ TWA (as Ni, except Nickel carbonyl) (related to Nickel compounds)

Acetic acid (64-19-7)

ACGIH: 10 ppm TWA

15 ppm STEL

OSHA: 10 ppm TWA; 25 mg/m³ TWA

NIOSH: 10 ppm TWA; 25 mg/m³ TWA

15 ppm STEL; 37 mg/m³ STEL

Engineering Controls:

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

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PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Work Practices:

Eye wash fountain and emergency showers are recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Liquid	Appearance:	Clear green
Odor:	Mild acetic acid	Vapor Pressure:	17 mm Hg
Vapor Density:	Heavier than air	Boiling Point:	215 °F (101.7 °C) Low
Freezing Point:	Not applicable	Specific Gravity:	1.07 - 1.08
pH:	3.4 - 5.5	Viscosity:	Not determined
VOC:	Not applicable	Solubility Water:	Complete
Evaporation Rate:	Faster than butyl acetate	Percent Volatile:	Not applicable
Percent Solids:	< 15%		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

Stable under normal conditions.

Incompatibility:

This product may react with strong oxidizing agents. This product reacts with acids.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization:

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity:

A: General Product Information

Acetic acid is an irritant and corrosive compound. Depending on the concentration, it can produce mild to severe and irreversible, or even fatal effects.

B: Component Analysis - LD50/LC50

Nickel acetate (373-02-4)

Oral LD50 Rat: 350 mg/kg

Acetic acid (64-19-7)

Inhalation LC50 Rat: 11.4 mg/L/1H; Oral LD50 Rat: 3310 mg/kg; Dermal LD50 Rabbit: 1060 mg/kg

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Carcinogenicity:

A: General Product Information

The carcinogenic effect of nickel has been well documented in occupationally exposed nickel refinery workers. Lung and nasal cancers were the predominant forms of cancer in the exposed workers.

B: Component Carcinogenicity

Nickel acetate (373-02-4)

NIOSH: potential occupational carcinogen (related to Nickel compounds)
NTP: Known Carcinogen (related to Nickel compounds) (Select Carcinogen)
IARC: Monograph 49 [1990] (listed under Nickel and Nickel compounds), Supplement 7 [1987] (Group 1 (carcinogenic to humans))

Chronic Toxicity

Contact dermatitis in workers exposed to nickel compounds is one of the most prevalent effects of nickel exposure.

Epidemiology:

Asthma induced by occupational exposure to nickel has been documented. The asthma can result from either primary irritation or from an allergic response. Contact dermatitis in workers exposed to nickel compounds is one of the most prevalent effects of nickel exposure.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Nickel acetate (373-02-4)

Test & Species

Test & Species	Conditions
96 Hr LC50 Channa argus	306.9 mg/L

Conditions

Acetic acid (64-19-7)

Test & Species

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	88 mg/L [static]
96 Hr LC50 Lepomis macrochirus	75 mg/L
5 min EC50 Photobacterium phosphoreum	8.8 mg/L
15 min EC50 Photobacterium phosphoreum	8.8 mg/L
25 min EC50 Photobacterium phosphoreum	8.8 mg/L
24 Hr EC50 Daphnia magna	95 mg/L

Conditions

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Nickel acetate (373-02-4)

SARA 313: 0.1 % de minimis concentration (Chemical Category N495) (related to Nickel compounds)

Acetic acid (64-19-7)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Nickel acetate (1related to Nickel compounds) (2related to Nickel soluble compounds) (3related to Nickel compounds, n.o.s.)	373-02-4	Yes ¹	No	Yes	Yes ²	Yes ³	Yes ¹
Acetic acid	64-19-7	Yes	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Nickel acetate	373-02-4	Yes	Yes	Yes
Acetic acid	64-19-7	Yes	Yes	Yes
Surfactant(s)	Proprietary	Yes	Yes	No

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Nickel acetate	373-02-4	0.1 %
Acetic acid	64-19-7	1 %

* * * Section 16 - Other Information * * *

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 2* Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Product Safety and Regulatory Affairs

Contact Phone: (248) 583-9300

This is the end of MSDS # 232276 / IDH No. 767966