

Section 1: Product and Company Identification:

1.1 Product Identifier

Product Form: Mixture
Product Name: NYACOL[®] Y-Coat

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Metal surface treatment
Restrictions on Use: For industrial use only, not for food, drug or home use.

1.3 Details of the supplier of the safety data sheet

Company Identification: Nyacol Nano Technologies, Incorporated
Megunko Road, P.O. Box 349, Ashland, MA 01721 U.S.A.
+1 508-881-2220

Email Contact: info@nyacol.com

Internet: www.nyacol.com

1.4 Emergency telephone number

In Case of Emergency: USA/Canada CHEMTREC: +1 (703) 527-3887
International CHEMTREC: +1 (703) 741-5970
24 Hours/Day: 7 Days/Week

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified.

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not classified.

2.2 Label Elements – Labelling according to Regulation (EC) No. 1272/2008

Not labelled.

Signal Word: Not applicable.

Hazard Pictogram: Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

2.3 Other Hazards

Components do not meet the criteria for a PBT or vPvB substance.

2.4 Unknown acute toxicity (GHS US)

No further relevant information available.

Section 3: Composition / Information on Ingredients

3.1 Chemical characterization: Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200

Contains less than one percent by weight nanoparticles.

Section 4: First-Aid Measures

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of the eye and lids with water. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water for several minutes. Remove contaminated clothing. Get medical attention if skin irritation develops or persists.

Inhalation: If inhaled, remove to fresh air; remove person from exposure source. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Consult medical professional.

Ingestion: If swallowed, rinse out mouth with water and seek medical attention. Never give anything by mouth to an unconscious person.

First Aid Facilities: Eye wash station.

Advice to Physicians: No further relevant information available.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Use fire fighting measures that suit the environment. All are acceptable, cool containers with water spray.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Flammability of the product: Material will not burn in a fire. Containers can build pressure if exposed to heat or fire.

Special Hazard Arising from the Chemical: No further relevant information available.

Fire Hazard: No further relevant information available.

Explosion Hazard: No further relevant information available.

Reactivity: No further relevant information available.

5.3 Advice for firefighters

Special Protective Equipment for Fire-fighters: Wear standard full firefighter turn-out gear (full bunker gear) and respiratory protection (SCBA).

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Wear protective equipment; eye protection and impervious gloves. Keep unprotected persons away. An approved air-purifying respirator should be worn if dust or mist is present.

6.2 Environmental precautions

Water contamination should be avoided.

6.3 Methods and material for containment and cleaning up

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill or leak with sand, clay or absorbents. Recover liquid for recycle or disposal. Do not allow spills into sewers or surface waters. Place absorbents, waste products and contaminated soil into containers for disposal. Avoid contact with skin, eyes or clothing.

6.4 Reference to other sections

For more information on exposure controls and personal protection or disposal considerations, check section 8 and 13 of this SDS.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Minimum feasible handling and temperatures should be maintained. Avoid generating mist or dust during use. Use only in well ventilated area.

7.1.1 Protective measures

Use only in well ventilated areas. As a precautionary measure, the wearing of standard work gear is suggested. Keep ignition sources away. Do not smoke. Protect from heat.

7.1.2 Advice on general occupational hygiene

Avoid inhalation or ingestion. General occupational hygiene measures are required to ensure a safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no eating, drinking and smoking at the workplace and wearing standard working clothes and shoes unless otherwise stated. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

7.2 Conditions for safe storage, including any incompatibilities

Periods of exposure to high temperatures should be minimized. Provide sufficient ventilation in storage and workrooms. Keep from freezing. Store in a cool dry area. Keep containers tightly sealed.

7.3 Specific end use(s)

No additional information available. Refer to Section 1.2 of this SDS.

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Occupational exposure limits: No exposure limits noted for ingredients.

Biological limit values: No exposure limits noted for the ingredients.

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Good general ventilation (typically 10 air changes per hour). Use exhaust ventilation as needed to maintain good ventilation.

8.2.2 Individual protective measures, such as personal protective equipment (PPE)

Hygiene Measures:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air-supplied respirators should always be worn when airborne concentrations of the contaminant or oxygen content is unknown.

Hands:

Wear impervious gloves such as neoprene.

Eyes:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin:

Wear clean body-covering clothing; impervious gloves such as neoprene. Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

8.2.3 Environmental Exposure Controls

Adverse effects of this material on the environment have not been evaluated. Proper disposal techniques to isolate and recover material should be implemented.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance (Physical State, Color):	Water-based Liquid. Clear, colorless
Upper/lower flammability or explosive limits:	Not available.
Volatile by Weight:	>95%
Odor:	None
Vapor Pressure:	2260 kPs (17 mm Hg) at 20° C water.
Odor Threshold:	Not available.
Vapor Density:	Not available.
pH:	6 – 7
Density:	1.0 g/cm ³
Solubility in Water:	Soluble in all proportions.
Initial boiling point and boiling range:	100°C (212°F) water
Flashpoint:	None.
Evaporation Rate:	Slow (Butyl Acetate = 1)
Flammability (solid, gas):	Material will not burn in a fire.
Partition Coefficient:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Specific Gravity:	1.0 (water = 1)
Freezing Point:	0° C (32° F) water
Explosion Limits:	Product is not explosive.
Oxidizing Properties:	Not an oxidizer.

9.2 Other information

No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical Stability

Stable under normal ambient and anticipated storage and handling conditions.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Hydrogen peroxide, bases

10.6 Hazardous decomposition products

Acetic acid, carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Skin Contact:	Irritant. Avoid contact with skin.
Eye Contact:	Irritant. Avoid contact with eyes.
Inhalation:	Use breathing protection when aerosol or mist is formed.
Sensitization:	No further relevant information available.
Chronic Effects:	No further relevant information available.
Carcinogenicity:	No data indicating any concern for carcinogenicity.
Other information:	Contains <1% wt nanoparticles.

Section 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability

There is no data on the degradability of this product.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB Assessment

The PBT and vPvB criteria of Annex XIII to the Regulation do not apply to this product.

12.6 Other adverse effects

No further relevant information available.

Section 13: Disposal Considerations

This information presented only applies to the materials as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: Transport Information

Not regulated as dangerous goods.

14.1 UN Number:

Not applicable.

14.2 UN Proper Shipping Name:

Not applicable.

14.3 Transport hazard class(es) / 14.4 Packing Group:

Regulations	Shipping Name	Hazard Class	Packing Group	UN Number
U.S. D.O.T.:	Not applicable.	Not applicable.	Not applicable.	Not applicable.
IMO/IMDG:	Not applicable.	Not applicable.	Not applicable.	Not applicable.
ICAO/IATA:	Not applicable.	Not applicable.	Not applicable.	Not applicable.
ADR:	Not applicable.	Not applicable.	Not applicable.	Not applicable.

14.5 Environmental hazards:

No further relevant information available.

14.6 Special precautions for users:

No further relevant information available.

14.7 Transport bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture:

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Worldwide Chemical Inventories

EINECS (EU):	All ingredients conform.
EPA TSCA (USA):	All ingredients listed.
Domestic Substance List (Canada):	All ingredients listed.
WHMIS:	Not a hazardous substance.
Transportation of Dangerous Goods (TDG):	Does not meet dangerous goods criteria.
State Right-to-Know Laws:	



SAFETY DATA SHEET

NYACOL® Y-Coat

REVISION: January 15, 2026
SUPERSEDES: None
VERSION NO.: 1

Massachusetts RTK – Substance list:	Not regulated.
New Jersey Worker and Community Right to Know Act:	Not listed.
Pennsylvania Worker and Community Right to Know Law:	Not listed.
Rhode Island RTK:	Not regulated.
California Proposition 65:	No ingredients listed.
SARA 302:	Not listed.
SARA Section 311/312 (29 CFR 1910.1200)	Not classified according to GHS.
Hazards:	
SARA 313:	Not regulated.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

National Fire Protection Association (U.S.A.) 704	Health-1, Flammability-0, Reactivity-0, Special-None
HMIS® Hazard Rating:	Health-1, Flammability-0, Reactivity-0, Protective Equipment – B; safety glasses, gloves.
Recommended Use:	The product is recommended for use in metal surface coating. Other uses have not been investigated and may have other hazards. For industrial use only, not for food, drug or home use.
Work Alert:	Workers using the product should read and understand this SDS and be trained in the proper use of this material.
Other Special Considerations:	None known.
SDS Prepared By:	Andrew A. Guzelian Technical Services Manager Nyacol Nano Technologies, Incorporated Telephone: 508-881-2220 U.S.A.
Revision Date:	January 15, 2026
Supersedes:	None

Nyacol Nano Technologies, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Furthermore, this safety data sheet has been prepared based on the legal requirements as set by Regulation (EC) 1907/2006 (REACH) based on information as is available per August 1, 2010. Further information received following the time scale as foreseen by REACH and the guidance policies as described in the REACH Implementation Programs will be added when it becomes available. Suggestions are made without warranty or guarantee of results. Before using, the user should determine the suitability of the products for the intended use, and the user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without license.

NYACOL® is a registered trademark of Nyacol Nano Technologies, Inc.