



SAFETY DATA SHEET

NYACOL® DP6255

REVISION: 7/24/2013
SUPERSEDES: 6/10/2011

Section 1: Identification:

Identification of Substance: Ceria
 Product Name: NYACOL® DP6255
 Synonym: None.
 CAS Number: 1306-38-3
 Company Identification: Nyacol Nano Technologies, Incorporated
 Megunko Road, P.O. Box 349, Ashland, MA 01721 U.S.A.
 508-881-2220
 In Case of Emergency: CHEMTREC: 800-424-9300
 24 Hours/Day: 7 Days/Week
 E-mail Contact: info@nyacol.com
 Internet: www.nyacol.com
 Recommended Use: Polishing.
 Restrictions on Use: For industrial use only, not for food, drug or home use.

Section 2: Hazard(s) Identification

Health	Environmental	Physical
Acute toxicity, Dermal (Category 5)	None known.	None known.
Corrosion/Damage/Irritation Eye (Category 2B)		

GHS label element including precautionary statements: P102 Keep out of reach of children.
 P331 Do NOT induce vomiting. P311 Call a POISON CENTER or doctor/physician if ingested.

Signal Word / Pictogram: Warning No pictogram required.
 Emergency Overview: Yellow liquid. Vinegar odor. Keep spills out of surface waters.
 OSHA Hazards: Not applicable.
 Primary routes of entry: Inhalation. Absorption.
 Target organs: Skin. Eyes.

Hazard Statement(s): List Out	Precautionary Statement(s): List Out
H320 – Causes eye irritation.	P264 – Wash face, hands and any exposed skin thoroughly after handling. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present an easy to do. Continue rinsing. P337+P313 – If eye irritation persists, get medical advice/attention.
H313 – May be harmful in contact with skin.	P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

Section 3: Composition / Information on Ingredients

Component Name:	CAS Number	Exposure Limits	Percent By Weight
Cerium Oxide:	1306-38-3	Not available.	16
Acetic Acid:	64-19-7	10 ppm	2
Proprietary:	----	----	3
Water	7732-18-5	None.	79
Component Name:	EINECS Number	RTECS Number	REACH Number
Cerium Oxide:	215-150-4	FK6310000	05-2117294586-27-0000
Acetic Acid:	200-580-7	AF1225000	05-2117294607-31-0000
Water	231-791-2	ZC0110000	None.



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Impurities: None known.
Stabilizing Additives: None known.

Section 4: 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. If irritation persists, get medical attention.

Skin Contact: In case of contact, wash with soap and water. Remove contaminated clothing. Wash clothing before reuse.

Inhalation: Remove person from exposure source. Consult medical professional.

Ingestion: If swallowed seek medical attention immediately. Do not induce vomiting unless directed by medical professional. Give large quantities of water with Milk of Magnesia or other medical antacid. Never give anything by mouth to an unconscious person.

Advice to Physicians: No recommendations.

First Aid Facilities: Eye wash station. Milk of Magnesia or other medical antacid.

Section 5: Fire-Fighting Measures

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

Extinguishing Media: All are acceptable. Cool containers with water spray.

Not Suitable: None known.

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

Special Hazard Arising from the Chemical: Acid fumes may be generated.

Section 6: Accidental Release Measures

Personal Precautions and PPE: Eye protection and impervious gloves. An approved air-purifying respirator should be worn if dust or mist is present.

Environmental Precautions: Water contamination should be avoided.

Method for Cleaning Up:

Spill: 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.

Section 7: Handling and Storage

Precautions During Handling: Avoid generating mist or dust during use.

Storage: Store in cool, dry area. Do not freeze.

Section 8: Exposure Controls / Personal Protection

Ingredient(s): NYACOL® DP6255, Cerium Oxide CAS# 1306-38-3; Acetic Acid CAS# 64-19-7

Engineering Controls: Use exhaust ventilation to keep airborne concentrations below exposure limits.

Hygiene Measures: Change contaminated clothing. Wash hands after working with substance.

Personal Protective Equipment (PPE):

Respiratory:	When respiratory protection required or concentrations are unknown, use an approved air-purifying respirator equipped with dust cartridge.
Hands:	Wear impervious gloves such as neoprene.
Eyes:	Wear approved safety glasses.
Skin:	Wear clean body-covering clothing; impervious gloves such as neoprene.
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

Appearance (Physical State, Color):	Yellow liquid. NYACOL DP6255 is a water-based material.
Odor:	Vinegar odor.
Vapor Pressure:	2260 kPa (17 mm Hg) at 20° C water.
Density:	1200 kg/M ³
pH:	9.0
Boiling Point:	100° C (212° F) water
Freezing Point:	0° C (32° F) water
Flashpoint:	Not applicable.
Oxidizing Properties:	Not known.
Solubility(ies):	Soluble in all proportions.
Specific Gravity:	1.20
Volatile by Weight:	84%
Viscosity:	<15 cP
Partition coefficient:	Not available.
Explosion Limits:	Not applicable.
Evaporation Rate:	Slow (Butyl Acetate = 1).

Section 10: Stability and Reactivity

Chemical Stability:	NYACOL [®] DP6255 is stable.
Conditions to Avoid:	Neutralization by acidic materials.
Incompatible Materials:	Not available.
Hazardous Decomposition Products:	Acetic acid, oxides of carbon.
Hazardous Polymerization:	Will not occur.

Section 11: Toxicological Information

<u>LD₅₀, Rat, Oral:</u>	Cerium Oxide: >5000 mg/kg
	Acetic Acid: 3310 mg/kg
	Water: None reported.

Acute Effects:

Skin Contact:	Irritant. No published data available.
Eye Contact:	Irritant. No published data available.



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Inhalation:	Not available.
Ingestion:	Not available.
Target Organ Effects:	Acute.
Chronic Effects:	None known.
Medication Conditions Aggravated by Over-exposure:	No data available.
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial):	Not available.
Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in Soil:	Not available.
Chronic Aquatic Toxicity:	Not available.
Environmental Effects:	Not available.
Other Adverse Effects:	Not 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 property waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Disposal Considerations:	DP6255 should be recycled or solidified for disposal in a landfill approved for chemical waste.
United States:	Not a RCRA regulated waste.

Section 14: Transport Information

U.S. Department of Transportation (DOT):	
Proper Shipping Name:	NYACOL® DP6255
Hazard Class:	Not regulated United Nations (UN) Number. Not applicable.
UN/NA Number:	Not applicable, does not meet dangerous goods criteria.
Transport Hazard Class(es):	Not applicable, does not meet dangerous goods criteria.
Packing Group:	Not applicable, does not meet dangerous goods criteria.
ICAO/IATA:	Not applicable, does not meet dangerous goods criteria.
IMO Shipping Name:	Not applicable, does not meet dangerous goods criteria.
IATA Shipping Name:	Not applicable, does not meet dangerous goods criteria.
ADR Shipping Name:	Not applicable, does not meet dangerous goods criteria.
RID Shipping Name:	Not applicable, does not meet dangerous goods criteria.
Labels Required:	Not applicable.
Special Precautions:	None.
<u>International Maritime Organization (IMDG):</u>	Not applicable, does not meet dangerous goods criteria.

Section 15: Regulatory Information

<u>U.S. Federal Regulations:</u>	
EPA TSCA Act:	All ingredients listed.
D.O.T. Regulations:	See Section 14.
Explosion Hazard:	Not available.
Fire Hazard:	Material will not burn in a fire.



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Known Synergists:	Not available.
Corrosion Hazard:	Not available.
Explosion Hazard:	Not available.
SARA 313 Components:	No ingredients listed.
<u>U.S. State Regulations:</u>	
California Proposition 65:	No ingredients listed.
State Right-to-Know Laws:	Section 3 of this SDS lists all components of NYACOL® DP6255.
<u>International Regulations:</u>	Check with governmental or regional regulations.
<u>Canadian Regulations:</u>	
Domestic Substance List:	All ingredients listed.
WHMIS:	Acetic Acid: E Corrosive Material. Disclosure at 1.0%.
Transportation of Dangerous Goods:	Not applicable. NYACOL® DP6255 does not meet dangerous goods criteria.
Controlled Products Regulations:	This SDS contains all the information items specified in Schedule 1, Column 3 of the Controlled Products Regulations in a 16-heading format.
<u>International Lists:</u>	Check with governmental or regional regulations.
All ingredients are included:	Australia (AICS). Europe (EINECS). Canada (DSL).

Section 16: Other Information

National Fire Protection Association (U.S.A.) 704 Hazard Rating:	Health-1, Flammability-0, Reactivity-0, Special-None
HMS® Hazard Rating:	Health-1, Flammability-0, Reactivity-0, Protective Equipment -B; Eye Protection, Gloves.
Recommended Use:	DP6255 is recommended for use in polishing. 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 DP6255 should read and understand this SDS and be trained in the proper use of this material.
Other Special Considerations:	None known.
SDS Prepared By:	Robert J. Nehring Nyacol Nano Technologies, Incorporated Telephone: 508-881-2220 U.S.A.
Revision Date:	July 24, 2013
Supersedes:	June 10, 2011

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