



8210 N. Austin Avenue, Morton Grove, IL 60053-3205, U.S.A.  
 847-967-6000 800-323-8144  
 (Monday - Friday: 7:30 a.m. - 4:00 p.m. CST)

**Emergency Contact:**  
 INFOTRAC 800-535-5053 [U.S.A.]

Name: 3,5-Dinitrobenzyloxyamine hydrochloride or DNBA  
 Code: 1-510121-200, 1-510121-500

..... **SAFETY DATA SHEET** .....

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY** .....

- 1.1 Product Identifier
  - Name 3,5-Dinitrobenzyloxyamine hydrochloride or DNBA
  - Code 1-510121-200, 1-510121-500
- 1.2 Use of Substance/Mixture
  - Use Analytical Reagent for Liquid Chromatography
- 1.3 Details of Manufacturer/Supplier
  - Company Regis Technologies, Inc.  
 8210 N. Austin Avenue  
 Morton Grove, IL 60053  
 847-967-6000; 800-323-8144 (toll free)  
 Email: cservice@registech.com  
 www.registech.com
- 1.4 Emergency Telephone
  - INFOTRAC 800-535-5053 [U.S.A.]

**SECTION 2 HAZARDS IDENTIFICATION** .....

- 2.1 Classification of the Substance or Mixture
  - GHS Classification
 

Skin Corrosion / Irritation	Category 1B	H314
Serious Eye Damage / Irritation	Category 1	H314
STOR-SE (Respiratory tract)	Category 3	H335

GHS Label Elements  
 Pictograms or hazard symbols



Signal Word Danger

Hazard Statement  
 H314-Causes severe skin burns and eye damage.  
 H335-May cause respiratory irritation.

Precautionary Statements

- [Prevention] P280-Wear protective gloves/eye protection/face protection.
- [Response] P301+P330+P331-IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314- Get medical advice/attention if you feel unwell.
- [Storage] P402+P404- Store in a dry place. Store in a closed container.  
 P403+P235-Store in a well-ventilated place. Keep cool.
- [Other] Hygroscopic, light sensitive. Store under inert gas.

Some abbreviations used throughout this MSDS: NA=not applicable; NE=not established; U=unknown/unavailable; NL=not listed; N=no; Y=yes.



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**SECTION 3 ..... COMPOSITION / INFORMATION ON INGREDIENTS .....**

Name 3,5-Dinitrobenzyloxyamine hydrochloride or DNBA  
 Synonyms O-[(3,5-Dinitrophenyl)methyl]hydroxylamine hydrochloride; O-[(3,5-Dinitrophenyl)methyl]hydroxylamine hydrochloride

Hazardous components

Component	Classification	Concentration
3,5-Dinitrobenzyloxyamine hydrochloride	Skin Corr. 1B; Eye Dam. 1; STOT-SE 3; H314; H314; H335	≥ 97.0 %
CAS No. 127312-04-3		
EC No. None		
Formula C <sub>7</sub> H <sub>8</sub> ClN <sub>3</sub> O <sub>5</sub>		
Molecular Mass 249.61		

For full test of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4 ..... FIRST AID MEASURES .....**

- 4.1 Description of first aid measures
  - General: Do not attempt to neutralize as it frequently makes matters worse.
  - Eye contact: Rinse eyes with plenty of water for at least 15 minutes; lift eyelids occasionally. If irritation persists, consult physician.
  - Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and plenty of water. If irritation persists, consult physician.
  - Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and keep person warm and at rest. Consult physician.
  - Ingestion: Give large amounts of water or milk (two glasses at most). Avoid vomiting. Consult physician immediately. Do not attempt to neutralize.
  - Physician note: Symptomatic and supportive care. There is no specific antidote.
- 4.2 Most important symptoms and effects, both acute and delayed. Causes severe skin burns and eye damage.
- 4.3 Indication of immediate medical attention and special treatment needed. No information available.

**SECTION 5 ..... FIRE-FIGHTING MEASURES .....**

- 5.1 Suitable Extinguishing Media  
Carbon dioxide, dry chemical powder, dry sand.
- 5.2 Specific hazards arising from the chemical.  
Corrosive solid. Only slightly soluble in water.  
Water spray may be used to cool fire-exposed containers. Emits toxic fumes under fire conditions.  
Produces carbon oxides, nitrogen oxides, hydrogen chloride upon combustion.
- 5.3 Advice for fire-fighters  
Wear personal protective equipment for corrosive amine and acidic vapor conditions. Wear self-contained breathing apparatus (SCBA) if necessary.

**SECTION 6 ..... ACCIDENTAL RELEASE MEASURES .....**

- 6.1 Personal precautions, protective equipment, and emergency procedures  
For non-emergency personnel - Do not breath dusts. Avoid material contact. Evacuate unnecessary personnel from area, observe emergency procedures, consult an expert.  
  
For emergency responders – Protective equipment for corrosive acidic vapor conditions. See Section 8.3.

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- 6.2 Environmental precautions  
Prevent material from entering drains.
- 6.3 Methods of clean up  
Evacuate unnecessary people from area. Isolate spilled material.  
Ventilate area. Eliminate all ignition sources. Use spark proof tools.  
Neutralize with sodium bicarbonate or other suitable neutralizing agent.  
If in solution, mix with sand or similar inert adsorbent material or spill pillow.  
Sweep up, seal in appropriate hazardous waste container, and hold for proper waste disposal.  
Keep out of water supplies and sewers. Wash spill site after material pickup is complete.

**SECTION 7 ..... HANDLING AND STORAGE.....**

- 7.1 Safe Handling Precautions  
Wear suitable protective equipment to avoid contact with skin, eyes, or inhalation of corrosive amine and acidic vapors.  
Wash thoroughly after handling. Immediately remove contaminated clothing.  
Handle in a dry, well ventilated area. Use local exhaust if dust can be generated.  
Keep away from ignition sources. Take precautionary measures against static discharge.  
Handle under inert gas. Protect from moisture. Hygroscopic and light sensitive.
- 7.2 Storage Conditions  
Store under inert gas in a tightly sealed container. Store in a cool, dry place suitable for corrosive materials. Protect from moisture, ignition sources, and away from alkaline, basic, and oxidizing materials.

**SECTION 8 ..... EXPOSURE CONTROLS / PERSONAL PROTECTION.....**

- 8.1 Control parameters  
Exposure limits 3,5-Dinitrobenzyloxyamine hydrochloride (127312-04-3) – No information available.  
Environmental Do not empty into drains.
- 8.2 Appropriate engineering controls  
Safety shower and eye wash  
Local exhaust and mechanical ventilation required. Hood recommended. Fume scrubber.
- 8.3 Personal protection  
Eye/Face Chemical safety eyewear or goggles  
Hand Compatible chemical-resistant gloves: Rubber (e.g., natural rubber, neoprene, nitrile, or equivalent), Silver Shield®, Viton®  
Respiratory NIOSH/MSHA or European Standard EN 149 approved respirator for organic/acid gas, dust, and mists if exposure limits are exceeded or irritation or other symptoms are experienced.  
Dermal (not hand) Protective Clothing (e.g., lab coat)--flame retardant anti-static material recommended.  
Hygiene Avoid inhalation, ingestion; contact with eyes, skin, and clothing; and prolonged or repeated exposure.  
Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated footwear.

**SECTION 9 ..... PHYSICAL AND CHEMICAL PROPERTIES .....**

- 9.1 Information on physical and chemical data
 

Chemical Formula	C <sub>7</sub> H <sub>8</sub> ClN <sub>3</sub> O <sub>5</sub>
Molecular Weight	249.61
Form	solid
Appearance	light yellow powder
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting/freezing point	200-215°C (391-418°F) (dec)

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Boiling point:	Not available	
Flammability (liquid, solid)		
Flash Point	Not available	Method: Not available
Flammable limits (%v/v)	LEL (lower explosive limit)	Not available
	UEL (upper explosive limit)	Not available
Autoignition temperature	Not available	
Decomposition temperature	Not available	
OSHA Flammability Class	Not available	
Evaporation Rate (BuAc = 1.0)	Not available	
Vapor pressure (mmHg)	Not available	
Vapor density (air=1):	Not available	
Relative density (g/cm <sup>3</sup> )	Not available	
Water Solubility	slightly soluble	
Water reactive	No	
Solubility (other)	Not available	
Partition coefficient: N-octanol/water	Not available	
Viscosity	Not available	

**SECTION 10** ..... **STABILITY AND REACTIVITY** .....

- 10.1 Reactivity
  - Reactive to water or moisture.
- 10.2 Chemical Stability
  - Stable if stored under nitrogen and protected from moisture, heat and light.
- 10.3 Possibility of hazardous reactions
  - Decomposes on contact with water or moist air.
- 10.4 Conditions to avoid
  - Avoid incompatibilities.
  - Protect from heat and ignition sources.
  - Keep out of water supplies and sewers.
- 10.5 Incompatible materials
  - Alkalies
  - Strong bases
  - Strong oxidizers
  - Moist air or water
- 10.6 Hazardous decomposition products
  - Combustion            carbon oxides, nitrogen oxides, hydrogen chloride

**SECTION 11** ..... **TOXICOLOGICAL INFORMATION** .....

- 11.1 Toxicological Information
 

Acute toxicity	Not available.
Skin corrosion/irritation	Corrosive to skin. Causes skin burns.
Serious eye damage/irritation	Corrosive to eyes. Causes severe eye damage.
Respiratory irritation	Not available.
Respiratory or skin sensitization	Not available
Germ cell mutagenicity	Not available

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Carcinogenicity	Not available
IARC	Not available
NTP	Not available
Reproductive toxicity	Not available
STOT-single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available
RTECS Number	Not available

11.2 Further Information

Potential health effects	
Eye	Can cause eye burns, destruction of mucous membranes, and serious eye damage.
Skin	Can cause skin burns.
Inhalation	May be irritating to mucous membranes and respiratory tract. Symptoms: coughing, shortness of breath, difficulty breathing, headache.
Ingestion	May be harmful.
Symptoms	See above route. Pre-existing conditions that may be aggravated: not determined.
Miscellaneous	No data available.

**SECTION 12** ..... **ECOLOGICAL INFORMATION** .....

Ecotoxicity	Not available
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Motility in soil	Not available
Other adverse effects	Not available
General Notes	Do not empty into drains or water courses.

**SECTION 13** ..... **DISPOSAL CONSIDERATIONS** .....

13.1 Disposal methods	
U . S. EPA Waste Codes	D002
Waste Characterization (per U. S. regulations)	RCRA Hazard Class (40CFR 261): Corrosive Generator is responsible for proper waste characterization. NOTE: U. S. Federal and state hazardous waste regulations may differ considerably.
Waste Disposal	That which cannot be recovered or recycled, should be disposed of in accordance with all applicable international, national, regional, state, and local laws. Do NOT dump into any sewer, on ground, or into any body of water.

**SECTION 14** ..... **TRANSPORT INFORMATION** .....

14.1 UN number	UN 1759
14.2 UN proper shipping name	Corrosive solid, n.o.s. (3,5-Dinitrobenzyloxyamine hydrochloride or DNBA)
14.3 Transport Hazard Class	8
14.5 Packing group	PG II
14.6 Environmental hazards	Not applicable
14.6 Special precautions for user	See Section 8 for exposure/personal protection guidance.

**SECTION 15** ..... **REGULATORY INFORMATION** .....

15.1 Safety, health and Environmental regulations specific for the product in question.

NFPA: H3 F0 R0 HMIS: H3 F0 PH0

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15.2 Chemical Inventory Lists

Reviews, Standards, and Regulations

..... 3,5-Dinitrobenzyloxyamine hydrochloride  
 CAS number ..... 127312-04-3  
 TSCA: ..... N  
 This compound is sold strictly for FDA or research and development use.....  
 EINECS:..... N  
 Number ..... NL  
 CERCLA [Section 103 (40 CFR 302.4)]:..... NL  
 RQ (lbs) ..... NA  
 RCRA Waste Code..... NA  
 OSHA Process Safety [29 CFR 1910.119]: ..... NL  
 TQ (lbs)..... NA  
 Clean Air Act  
 [Section 112r (40 CFR 68)]:..... NL  
 TQ (lbs) ..... NA  
 Contains Ozone Depleters (Class I or Class II) ..... N  
 SARA Title III Notification [40 CFR 302.4]:  
 Section 302/304 (EHS) Ingredient  
 [40 CFR 355.3] ..... NL  
 TPQ (lbs)..... NA  
 RQ (lbs) ..... NA  
 Section 313 Ingredient [40 CFR 372.65] ..... NL  
 SARA Hazards Acute.....Y Chronic..... N Fire.....N Pressure..... N Reactivity .....Y  
 State Lists: ..... NL  
 States..... NL  
 On CA 65 Significant Risk Level..... NL

**SECTION 16** .....**OTHER INFORMATION**.....

16.1 Full test of H-Statements referred to under Section 2 and 3.

Eye Dam.	Serious eye damage
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
Skin Corr.	Skin corrosion
STOT-SE	Single Target Organ Toxicity – Single Exposure

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Prepared by: **Regis Technologies**

**This is the last page of this MSDS.**