



Concrete Refinement Products

1. PRODUCT IDENTIFICATION

PRODUCT NAME	Nail Hard
IDENTIFICATION NUMBER	
PRODUCT USE/CLASS	Suspension of amorphous silica in water in combination with nonhazardous trade secret.
CAS NUMBER	7631-86-9
SUPPLIER	Delosh 2289 Cornell Ave Montgomery, IL 60538
Emergency Telephone:	1-800-535-5053 (INFOTRAC)

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Product Description:
Health Hazards:

This product is a clear liquid with characteristic odor. Exposure to this product may cause irritation to eyes. Prolonged contact may cause skin irritation. Exposure to mists may cause respiratory tract irritation. May be harmful if swallowed.

Flammability Hazards:
Reactivity Hazards:
Environmental Hazards:

This product is a non-flammable with flash point greater than 200 °F. None known
The Environmental effects of this product have not been investigated. Release of this product is not expected to have significant adverse effects in the aquatic environment.



US DOT SYMBOLS
Non-Regulated Material

CANADA (WHMIS) SYMBOLS
"Not Controlled"

EUROPEAN and
(GHS) Hazard Symbols

CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910.1200 AND the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC

Index Number:

EC# 231-791-2 This substance is not classified in the Annex VI of Directive 67/548/EEC Proprietary Ingredient is not listed in ESIS

CAS# 68131-40-8 is not listed in ESIS

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

All Components

LABEL ELEMENTS

GHS Hazard Classification(s):

Skin Irritant Category 2
Eye Irritant Category 2A
STOT SE Category 3
Acute Oral Toxicity Category 4

Hazard Statement(s)

H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H302: May be harmful if swallowed

Precautionary Statement(s)	P261: Avoid breathing fume/mist/vapors/spray P264: Wash skin after handling P281: Use personal protective equipment as required
EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1999/45/EC	[C] Corrosive, [Xi] Irritant
Risk Phrases:	R22: Harmful if swallowed R36/37/38: Irritating to eyes, respiratory system and skin
Safety Phrases:	S24/25: Avoid contact with skin and eyes S45: In case of accident or if you feel unwell, seek medical attention immediately
HEALTH HAZARDS OR RISKS FROM EXPOSURE	
SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE	The most significant routes of exposure for this product are by inhalation, skin contact, eye contact or ingestion.
ACUTE	
Inhalation:	Inhalation of mists may be irritating to the respiratory tract.
Contact with skin:	Repeated or prolonged contact may cause skin irritation.
Eye Contact:	Contact may irritate the eyes, resulting in redness or watering.
Ingestion:	Ingestion may cause gastrointestinal irritation with nausea and diarrhea.
Chronic:	None known
TARGET ORGANS: Acute:	Eyes, Skin, Respiratory System Chronic: None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Product Identifier	GHS Classification	Percent By Weight
Silicon Dioxide	CAS: 7631-86-9 EINECS: 231-545-4 Index: Not available	Not classified.	7.5
Water	CAS: 7732-18-5 EINECS: 231-791-2 Index: Not available	Not classified.	92.5

Impurities:	Present at a level below that to be taken into account for classification.
Stabilizing Additives:	Present at a level below that to be taken into account for classification.

NOTE: The supplier currently has no knowledge on additional ingredients that are classified and that contribute to the classification of this substance. See Section 16 for a list of hazards if identified above.

4. FIRST AID MEASURES

First aid measures

Eye:	If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.
Skin:	If product contacts skin, wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.
Inhalation:	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
Ingestion:	If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Exposure to this product may cause irritation to skin and eyes. Inhalation of fumes/vapors may cause irritation to respiratory system. May be harmful if swallowed with digestive tract irritation, diarrhea and vomiting.

RECOMMENDATIONS TO PHYSICIANS

Treat symptoms and eliminate overexposure.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:	All are suitable. Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
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Special hazards arising from the substance or mixture

Special Hazard Arising from the Chemical: Fire Hazard: Explosion Hazard	Lithium oxides, silicon oxides and carbon oxides. No further relevant information available. Use explosion proof equipment. Keep away from sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge.
Reactivity:	No further relevant information available.

Advice for firefighters

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

Personal precautions, protective equipment and emergency procedures

See section 8.2 for Exposure Controls.

ENVIRONMENTAL PRECAUTIONS

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils

SPILL AND LEAK RESPONSE

Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING AND STORAGE

Precautions for safe handling	To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.
STORAGE AND HANDLING PRACTICES	Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.
SPECIFIC USES	Mineral residue remover

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Control Parameters National Limit Values

Silicon Dioxide, CAS 7631-86-9			
Country	Occupational exposure limit	Reference period	Reference
USA	80mg/m ³ %SiO ₂	8 hours	OSHA PEL - http://www.cdc.gov/niosh/idlh/7631869.html
UK	6 mg/m ³ (inhalable)	8 hours	Health and Safety Executive http://www.hse.gov.uk/pubns/priced/eh40.pdf
Germany	4 mg/m ³ (inhalable)	8 hours	Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (MAK Commission): http://www.dfg.de/en/dfg_profile/statutory_bodies/senate/health_hazards/index.html
Belgium	10 mg/m ³	8 hours	Service public fédéral Emploi, Travail et Concentration sociale: http://www.emploi.belgique.be/WorkArea/showcontent.aspx?id=23914
Austria	2 mg/m ³ (inhalable)	8 hours	http://www.arbeitsinspektion.gv.at/NR/rdonlyres/F173280B-D4FB-44D2-8269-8DB2CB1D2078/0/GKV2011.pdf

Silicic acid, lithium salt, CAS 12627-14-4		
USA OSHA	OSHA PEL Ceiling (mg/M ³)	Not available.

DNELs and PNECs

Silicon Dioxide, CAS 7631-86-9	
DNEL (Derived No Effect Level)	
Route of Exposure/Environmental protection target	DNEL
Inhalation - Long term/systemic effects	4 mg/m ³
PNEC (Predicted No Effect Concentration)	

Engineering Controls:	Exhaust ventilation to keep airborne concentrations below exposure limits.
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. When respiratory protection is required or concentrations are unknown, use an approved air-purifying respirator with organic vapor cartridge.
Hands:	Wear impervious gloves such as neoprene.
Eye:	Safety glasses, chemical type goggles, or face shield should be used 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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color):	Translucent liquid.
Upper/lower flammability or explosive limits:	Not determined.
Volatile by Weight:	93%
Odor:	Odorless
Vapor Pressure:	2260 kPs (17 mm Hg) at 20°C water.
Odor Threshold:	Not determined.
Vapor Density:	Not determined.
pH:	9 - 10
Relative Density:	1050 kg/M3
Melting point/freezing point:	Not determined.
Solubility in Water:	Soluble in water
Initial boiling point and boiling range:	100°C (212°F) water.
Flashpoint:	Not applicable.
Evaporation Rate:	Slow (Butyl Acetate = 1)
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Less than 10 cP.
Specific Gravity:	1.1
Freezing Point:	0°C (32°F)
Explosion Limits:	Not determined.
Oxidizing Properties:	Not an oxidizer.

10. STABILITY AND REACTIVITY

Reactivity	This product is not reactive.
Stability	Stable under normal storage/use conditions
possibility of hazardous reactions	Will not occur
Conditions to avoid	None known
incompatible materials	None known
Hazardous decomposition products	Thermal decomposition products include carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50, Rat, Oral Values for classification:
Silicon Dioxide, CAS 7631-86-9
Silicic acid, lithium salt, CAS 12627-14-4

> 5000 mg/kg
Not available.

Skin corrosion/irritation:

Avoid contact with skin, may cause skin irritation or dryness.

Eye damage/irritation:

Avoid contact with eyes, may cause serious eye irritation.

Inhalation:

Use breathing protection when aerosol or mist is formed. Breathing dried dust or spray mist causes irritation. OSHA exposure limit: Amorphous Silica = 20 mppcf (5 mg/M³) SiO₂ respirable dust or mist. 8-hour time weighted average. Exposure analysis method: NIOSH Manual of Analytical Methods, 3rd edition, Method 7501.

Aspiration:

No data available.

Sensitization:

No data available.

Chronic Effects:

No data available.

Carcinogenicity:

No component of this product present levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP and OSHA.

12. ECOLOGICAL INFORMATION

TOXICITY	No toxicity data available
Persistence and degradability	No specific data available on this product.
Bioaccumulative potential	No specific data available on this product.
Mobility in soil	No specific data available on this product.
RESULTS OF PBT ANDvPvB ASSESSMENT	No specific data available on this product.
Other adverse effects	No specific data available on this product. ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.
WATER ENDANGERMENT CLASS	Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.
EU Waste Code	Not determined

14. TRANSPORT INFORMATION

US DOT, IATA, IMO, ADR U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:	This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.
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NOTE: Per 49CFR 173.154 limited quantities of corrosive material (Class 8) in Packing Groups II and III are excepted from labeling requirements, unless the material is offered for transportation or transported by aircraft, and are excepted from the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. A limited quantity package that conforms to the provisions of this section is not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or is offered for transportation and transported by aircraft or vessel, and is eligible for the exceptions provided in §173.156 of this part. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. Except for transportation by aircraft, the following combination packagings are authorized: For miscellaneous materials in Packing Group III, inner packagings not over 5.0 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging.

Proper Shipping Name:	Compounds, cleaning liquid
Hazard Class Number and Description:	Corrosive Class 8
UN Identification Number:	NA1760
Packing Group:	PGIII
DOT LABEL(S) REQUIRED	Corrosive
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER	154
RQ QUANTITY	None
MARINE POLLUTANT	None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).
SPECIAL PRECAUTIONS FOR USER	Avoid exposure
INTERNATIONAL TRANSPORTION INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):	This product is considered as dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS

U.S. SARA REPORTING REQUIREMENTS:	The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.
U.S. SARA THRESHOLD PLANNING QUANTITY:	There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.
U.S. CERCLA REPORTABLE QUANTITY (RQ):	None
U.S. TSCA INVENTORY STATUS:	The components of this product are listed on the TSCA Inventory or are exempted from listing.
OTHER U.S. FEDERAL REGULATIONS:	None
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):	Ingredients within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS

CANADIAN DSL/NDSL INVENTORY STATUS:	The components of this product are on the DSL Inventory, or are exempted from listing.
OTHER CANADIAN REGULATIONS:	Not applicable.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CANADIAN WHMIS CLASSIFICATION and SYMBOLS:	This product is Class E Corrosive Material, per WHMIS Controlled Product Regulations.

EUROPEAN ECONOMIC COMMUNITY INFORMATION

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for full Details.

AUSTRALIAN INFORMATION FOR PRODUCT

The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:	The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.
JAPANESE ENCS INVENTORY:	The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.
POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:	No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES

Listing of the components on individual country Chemical Inventories is as follows:

- Asia-Pac: Listed
- Australian Inventory of Chemical Substances (AICS): Listed
- Korean Existing Chemicals List (ECL): Listed
- Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
- Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed
- Swiss Giftlist List of Toxic Substances: Listed
- U.S. TSCA: Listed

16. OTHER INFORMATION

Disclaimer

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Snyder Manufacturing Corporation assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Snyder Manufacturing Corporation assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

Full text of H statements referred to under sections 2 and 3:

H318 - Causes serious eye damage.

National Fire Protection Association (U.S.A.) 704 Hazard Rating:

HMIS:	Health	Fire	Reactivity	Special
National Fire Protection Association (U.S.A.) 704 Hazard:	1		0	0

	Health	Fire	Reactivity
HMIS:	1		0

Protective Equipment - B; safety glasses, gloves.

Recommended Use

The product is recommended for use in coatings for concrete. 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.

Disclaimer

This SDS has been prepared with data from Adeo Distributor's laboratories, raw material suppliers, and government publications. Information herein is accurate to the best of our knowledge. 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.