

Safety Data Sheet

Skyspring Nanomaterials, Inc. www.ssnano.com

Revision Date 02/01/2016

1 Identification of substance:
Product details:
Trade name: Hydroxylapatite nanoparticles
Stock number: 1970NE
Manufacturer/Supplier:
SkySpring Nanomaterials, Inc. 2935 Westhollow Dr., Houston, TX 77082, USA
Phone: 281-870-1700
Fax: 281-870-8002
Email: sales@ssnano.com
2 Composition/Data on components:
Chemical characterization:
Description: (CAS#) Calcium hydroxyphosphate (CAS# 12167-74-7)
Identification number(s):
EINECS Number: 235-330-6
3 Hazards identification
Emergency Overview
OSHA Hazards
Irritant GHS Label elements, including precautionary statements
Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
HMIS Classification
Health hazard: 2
Flammability: 0 Physical hazards: 0
NFPA Rating
Health hazard: 2
Fire: 0 Reactivity Hazard: 0
Potential Health Effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Skin May be harmful if absorbed through skin. Causes skin irritation.

	Ever Causes ave irritation
	Eyes Causes eye irritation.
	Ingestion May be harmful if swallowed.
-	D MEASURES
Cons dange If inh	
physi In ca s	athed in, move person into fresh air. If not breathing, give artificial respiration. Consult a cian. se of skin contact n off with soap and plenty of water. Consult a physician.
In ca s Rinse	se of eye contact thoroughly with plenty of water for at least 15 minutes and consult a physician. allowed
Neve physi	r give anything by mouth to an unconscious person. Rinse mouth with water. Consult a cian.
5. FIRE-FIG	HTING MEASURES
Use v	ble extinguishing media water spray, alcohol-resistant foam, dry chemical or carbon dioxide. ial protective equipment for fire-fighters
Wear	self contained breathing apparatus for fire fighting if necessary.
6. ACCIDE	NTAL RELEASE MEASURES
Perso	onal precautions
Ensu Envi r	bersonal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. re adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. ronmental precautions
Meth Pick u	ot let product enter drains. ods and materials for containment and cleaning up up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, d containers for disposal.
7. HANDLIN	NG AND STORAGE
Avoid Provie preve	autions for safe handling I contact with skin and eyes. Avoid formation of dust and aerosols. de appropriate exhaust ventilation at places where dust is formed. Normal measures for entive fire protection. Iitions for safe storage
Keep	container tightly closed in a dry and well-ventilated place.
8. EXPOSU	RE CONTROLS/PERSONAL PROTECTION
Conta Perso	ains no substances with occupational exposure limit values. onal protective equipment iratory protection
For n level Use r such	uisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. respirators and components tested and approved under appropriate government standards as NIOSH (US) or CEN (EU).
Hand (witho conta	I protection le with gloves. Gloves must be inspected prior to use. Use proper glove removal technique but touching glove's outer surface) to avoid skin contact with this product. Dispose of minated gloves after use in accordance with applicable laws and good laboratory practices. and dry hands.

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Eye protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	I
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance Form solid Colour white Safety data pH no data available Melting point 1,100 °C (2,012 °F) - lit. Boiling point no data available Flash point not applicable Ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Density 3.140 g/cm3	
Water solubility insoluble	
Stable under recommended storage conditions. Conditions to avoid no data available Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions Oxides of phosphorus, Calcium oxide	
 11. TOXICOLOGICAL INFORMATION Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. 	

Reproductive toxicity
no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Signs and Symptoms of Exposure
Gastrointestinal disturbance, Nausea, Headache, Vomiting, To the best of our knowledge, the
chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information
12. ECOLOGICAL INFORMATION
Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects no data available
13. DISPOSAL CONSIDERATIONS
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
professional waste disposal service to dispose of this material. Contaminated packaging
Dispose of as unused product.
14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
ΙΑΤΑ
Not dangerous goods
15. REGULATORY INFORMATION
OSHA Hazards
Irritant
DSL Status
All components of this product are on the Canadian DSL list.
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title

III, Section 302.
SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold
(De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards
Acute Health Hazard
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components
Pentacalcium hydroxide tris(orthophosphate)
CAS-No.
12167-74-7
Revision Date
New Jersey Right To Know Components
Pentacalcium hydroxide tris(orthophosphate)
CAS-No.
12167-74-7
Revision Date
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth
defects, or any other reproductive harm.
16 Other information:
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper

them, and should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.