

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

NANO3D SYSTEMS LLC
ADDRESS: 1110 NE Circle Blvd.,
ATAMI/Bldg. 11, Corvallis, OR 97330
<https://nano3dsystems.com>
EMERGENCY NO. 1-800-424-9300 CHEMTREC

MATERIAL NAME: **ZINCATE**
REVISED: April 2016
CHEMICAL FAMILY: Caustic Solution
Product Number: ELPI-EL7Z-100A-01

SECTION 2. HEALTH HAZARD INFORMATION

GHS Classifications

H290: Corrosive to Metals: Category 1
H301: Acute toxicity Oral : Category 3
H313: Acute toxicity Dermal: Category 5
H315: Skin corrosion / Skin irritation : Category 2
H318: Serious eye damage / Eye irritation : Category 1

Pictograms or Hazard symbols



Warning: May be corrosive to metals.
May be harmful in contact with skin.



Warning: Causes skin irritation.



Danger: Toxic if swallowed.

Precautionary Statements

P234 Keep only in original container.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves, clothing, and eye and face protection.
P301 + P310 If swallowed, immediately call a physician.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
 P310 Seek medical assistance if exposed.
 P312 Call a physician if you feel unwell.
 P330 Rinse mouth.
 P332 + P313 If skin irritation occurs, get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P390 Absorb spillage to prevent material damage.
 P405 Store locked up.
 P406 Store in corrosive resistant container.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %
Sodium Hydroxide	CAS# 1310-73-2	12-15
Calcium Nitrate	CAS# 10124-37-5	1
Rochelle Salt	CAS# 304-59-6	5
Zinc Oxide	CAS# 1314-13-2	2
Ferric Chloride Hexahydrate	CAS# 7705-08-0	< 1
Water	CAS# 7732-18-5	75-85
Total		100

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.
Skin Contact: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.
Ingestion: Will cause severe burns to the mouth and damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Induce vomiting with soap solution.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
non-flammable	NA		NA	NA

Extinguishing media: Suitable for surrounding fire.
Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Do not allow to come in contact with acids.
 Toxic gases released: Contact with acids may release heat.

Most common metals, acids.

Hazardous decomposition products: Heat

Hazardous polymerization: May occur
Will not occur X

Conditions to avoid: Excess heat, direct sunlight.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE:

Oral rat LD50: 5400 mg/kg

Ingredients investigated as a tumorigen, mutagen, reproductive effector

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

IARC Category No

OTHER DATA:

Corrosive to skin, eyes, and mucous membranes.

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

Environmental Toxicity: This material is suspected of being harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

UN1824 PGIII, Class 8

Sodium Hydroxide Solution

SECTION 15. REGULATORY

Symbol: C, Corrosive

R-Phrase: 35, causes severe burns

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16. OTHER INFORMATION

NFPA Codes:

Health: 2

Flammability: 0

Reactivity: 0

R35: Causes severe burns.

Ingredients are TSCA listed.