

**MSDS**

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Nano Energizer

Material Safety Data Sheet

Product	COMPOSITION & INGREDIENTS	CAS No.	UN No.	EN No.
Nano Energizer (nano ceramic SOLUTION)	Ceramic coating	64742-54-7	-	265-157-1

No	Item	Description												
1	CHEMICAL PRODUCT & COMPANY IDENTIFICATION	<p>a. Product name : Nano Energizer (Auto engine & Industrial oil and nano ceramic Solution)</p> <p>b. Name of Company: NanoTec International Address: 117-3 Chimsan, Daegu, Korea Telephone: (+82) 53 354 5502, Fax: (+82) 53 354 5503 Web Site: www.nanozr.com</p>												
2	COMPOSITION & INGREDIENTS	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Composite Proportion (%)</th> <th>CAS No.</th> </tr> </thead> <tbody> <tr> <td>20 nm Nano Ceramic Particle</td> <td>15.0%</td> <td></td> </tr> <tr> <td>Mineral Oil</td> <td>79.6%</td> <td>64742-54-7</td> </tr> <tr> <td>OTHER ADDITIVES: dispersion Additive, anti Aging, surfactant, Platinum, TiO2 & etc</td> <td>5.4%</td> <td>-</td> </tr> </tbody> </table>	Ingredient	Composite Proportion (%)	CAS No.	20 nm Nano Ceramic Particle	15.0%		Mineral Oil	79.6%	64742-54-7	OTHER ADDITIVES: dispersion Additive, anti Aging, surfactant, Platinum, TiO2 & etc	5.4%	-
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3	HAZARDS IDENTIFICATION	<p>a. Physical state: Nonvolatile Liquid</p> <p>b. Name of Classification : Not on name of classification</p> <p>c. Potential health effects</p> <ul style="list-style-type: none"> * Inhalation : Acute exposure : Slight irritation Chronic exposure : May cause irritation, lung trouble and heart trouble * Skin : Acute exposure : Slight irritation Chronic exposure : May cause Irritation * Eye : Acute exposure : Slight irritation Chronic exposure : May cause Irritation and eye damage * Ingestion : Very hazardous in case of ingestion * Carcinogenic : No. 												
4	FIRST AID TREATMENT	<ul style="list-style-type: none"> * Inhalation exposure: Move person to fresh air. If breathing stop, apply artificial respiration and seek medical attention. * Skin exposure: Remove contaminated clothing and shoes immediately. Wash affected area with mild soap and water and get medical attention if necessary. Use contaminated clothing and shoes after washing. * Eye exposure: Immediately wash eyes with clean water and get medical attention. * Oral exposure: If swallowed lots of chemicals, vomiting and contact a physician immediately. 												
5	MEASURES AGAINST EXPLOSION OR FIRE	<ul style="list-style-type: none"> * Fire/Explosion Hazards: Not Available * Fire Fighting Instructions: Use proper extinguishing media and remove the chemical vessel to non-fire area. Be careful not to inhale chemicals and gases from chemicals. Keep away from under area with wind. 												
6	MEASURES FOR ACCIDENTAL RELEASE	<ul style="list-style-type: none"> * Collect the released substance in a safety container. Move to and store in safe place. Soak the rest by sand or non-flammable material. * Even though there is no environmental pollution hazard, isolate and keep chemicals from water supply and drainage because chemicals can affect aquatic creatures. 												
7	HANDLING AND STORAGE	<ul style="list-style-type: none"> * Handling: To handle with proper container under no heat and sufficient ventilating atmosphere. * Storage: Keep away from direct sun-heat and store in a cool and well ventilating storage. 												
8	EXPOSURE CONTROLS & PROTECTION	<p>a. Ventilation: Keep ventilated equipping with ventilation fan and keeps it away from direct sun.</p> <p>b. Personal protective equipment: To wear compatible chemical-resistant/safety clothes, gloves, mask and goggles.</p>												
9	PHYSICAL AND CHEMICAL PROPERTIES	<p>a. Physical state: White, nonvolatile odorless liquid</p> <p>b. PH: No information.</p> <p>c. Pour Point : -15°C</p> <p>d. Boiling Point : Not available</p> <p>e. Freezing Point : -16°C</p> <p>f. Flash Point : and method : 230°C, ASTM D92</p> <p>d. P- Particle size : 20nano meter , D-Particle size : 100nano meter</p> <p>e. Water content, %(by mass) : none</p> <p>f. Vapor pressure, vapor density, solubility: No information.</p> <p>g. No other information is available.</p>												
10	STABILITY AND REACTIVITY	<p>a. Stability & Reactivity: Stable at/under Normal Handling Conditions (normal temperature and pressure).</p> <p>b. Conditions to avoid: To keep free from Heat, Flame, Electric Spark & other Ignition Sources.</p> <p>c. Incompatibility with other materials: Peroxides, acids, oxidizing agent, flammable materials.</p>												
11	TOXICOLOGICAL INFORMATION	<p>a. Skin causticity, Irritating(Skin, Eye), mutagenicity: May cause slight irritation in skin and eye, but hazards are little. No other specific information found.</p> <p>b. Cancer Exposure, Acute Toxicity, Chronic Toxicity, Genital Toxicity, Teratogenicity: Not classified as a carcinogenic substance and no relevant information found.</p>												
12	ECOLOGICAL INFORMATION	<ul style="list-style-type: none"> * Environmental Influence information: Be careful for handling, storage and disposal because chemicals can affect aquatic creatures if released. * Resolvability and accumulation: No information found. 												
13	DISPOSAL CONSIDERATION	<ul style="list-style-type: none"> * Direct Disposal or Assigned Disposal according to Waste Disposal Law and related Regulations is required. 												
14	TRANSPORT INFORMATION	<p>a. DOT CLASSIFICATION : Not a Dot controlled material (United States)</p> <p>b. Identification : Not available</p> <p>c. Special Provision for transport : Not DOT</p>												
15	REGULATORY INFORMATION	<p>a. Korean Regulations</p> <ul style="list-style-type: none"> * Industrial Safety & Public Health Law, Toxic Chemical Handling Regulation, Dangerous Safety Handling Regulations: Not regulated. <p>b. USA Regulations</p> <ul style="list-style-type: none"> * Generally not a restricted or control item under CERCLA, SARA and OSHA. * SARA hazard classification (29CFR1910.1200): "No" in acute, chronic, fire, reactivity, sudden exhaust. 												
16	REFERENCE & PRECAUTION	<ul style="list-style-type: none"> * Reference Material: Material Suppliers' MSDS and General information from the Data Base of the Chemical Substances are quoted or referenced. * Precaution: Appropriate precaution has to be paid under the responsibility of the user. <ul style="list-style-type: none"> - All Chemical Products may cause unexpected dangerous accident subject to the storage conditions and other cause. - In application and handling of this product, keen consideration of the above information has to be paid under safety application conditions. 												

Responsibility for use, storage, handling and disposal of the products described herein, either alone or in combination with other substance, is that of the purchaser and/or end user.

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This is the end of MSDS Nano energizer.

NANOTEC INTERNATIONAL

Jaxon Park

Jaxon Park/Managing Director