

## Material Safety Data Sheet

issue : November 15 2006  
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPAPATION AND THE COMPANY

Product name : SHINMYOTAN N-RED (新明丹N - レッド)  
 Name of company : NAKATANI & Co., Ltd  
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 Recommend use of the chemical  
 and restrictions on use : inspection agent of a metalwork  
 Reference number: 300601E

## 2. HAZARDS IDENTIFICATION

## GHS hazard class

|  |   |
|--|---|
| Physical properties                              | Flammable solids; Not available<br>Pyrophoric solids; Not available<br>Self-heating substances and mixtures; Not available<br>Oxidising solids; Not available<br>Substances and mixtures corrosive to metals; Not identified<br>Acute toxicity(ingestion); Not available<br>(through the skin); Not identified<br>(by inhalation dust); Category 5<br>Skin corrosion/irritation; Not available<br>Serious eye damages/eye irritation; Not available<br>Sensitization (respiratory); Not identified<br>Sensitization(skin); Not identified<br>Germ cell mutagenicity; Not identified<br>Cacinogenicity; Not available<br>Toxic to reproduction; Not available<br>Effects in or via lactation ; Not identified<br>Specific target organ systemic toxicity from single exposure;<br>Category 1<br>Specific target organ systemic toxicity from repeated exposure;<br>Category 1<br>Aspiration toxicity; Not identified<br>Acute hazard; Category 1<br>Chronic hazard; Category 1 |
| Hazard classes for effects<br>to human health    |   |
| Hazard classes for effects to<br>the environment |   |
| Label and Package                                |   |

HAZARD symbols : Health hazard, Hazardous to the aquatic environment



Signal word

DANGER

## Hazard information

- Repeated or prolonged inhalation exposure may cause damage respiratory system
- Harmful to aquatic

## Package information

## [safty measures]

Handling : Wear protective equipment (masks, glasses, gloves) if required.

Use in a well-ventilated area

## [First AID]

@Inhalation : Fresh air, rest.

@Ingestion ; Rinse mouth. Refer for medical attention.

@Eyes ; Frist rinse with plenty of water for several minutes.

@Skin ; Remove contaminated clothes. Rinse and then wash skin with water and soap.

Call a doctor/physician if you feel unwell

## [STORAGE]

Well closed.

Keep in the dark and cool.

## [DISPOSAL]

Perform waste processing appropriately in accordance to the law.

## 3 . COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture : Mixture

| CHEMICAL NAME                                   | FORMULA   | COTENTS (%) | CAS NO.    |
|---|---|-------------|------------|
| Zinc oxide                                      | ZnO   | 40          | 1314-13-2  |
| Petroleum hydrocarbon                           | Unspecified   | 35          | 64742-55-8 |
| Aluminum stearate                               | C <sub>18</sub> H <sub>37</sub> AlO <sub>4</sub>  | 10          | 7047-84-9  |
| Polyoxyethylene polyoxypropylene monobutylether | C <sub>4</sub> H <sub>10</sub> O(C <sub>3</sub> H <sub>6</sub> OC <sub>2</sub> H <sub>4</sub> O) <sub>x</sub> | 7           | 9038-95-3  |
| Insoluble disazo orange                         | C <sub>34</sub> H <sub>32</sub> N <sub>6</sub> O <sub>6</sub>   | 8           | 6505-28-8  |

## 4 . FRIST-AID MEASURES

Inhalatation;

Remove the victim from the contamination immediately to fresh air.

Blow your nose and gargle.

Skin ;

Remove contaminated clothes. Rinse and then wash skin with water and soap.

Eyes;

Frist rinse with plenty of water for several minutes. If persistent irritation occurs, obtain medical attention.

Rinse mouth. Refer for medical attention. Do not induce vomiting.

Ingestion;

An expected acute symptom and a delay-related symptom:

inharatation: sore throat, headache, fever ,nausea , vomiting , weakness.

Symptoms may be relayed.

Ingestion : abdominal pain , diarrhoea , nausea , vomiting

The person for first aid wear a tool for protection

Inhalation of fume may cause metal fever.

The symptom which is metal fever for inhalation of fume may be delayed .

## 5 . FIRE-FIGHTING MEASURES

Extinguishing Agents;

Use form, powder, carbon dioxide,dry-chemical  
No water.

**Extinguishing method:**

- 1) Cut the combustion source of the fire.
- 2) Use a powder or carbon dioxide fire extinguisher for fires at an early stage.
- 3) It is effective to use a foam fire extinguisher to cut off air in a large-scale fire.
- 4) Spray water on facilities around fire to cool them down.
- 5) Combat fire from a safety position and from windward.
- 6) Be sure to wear Protective clothing.
- 7) Forbid unauthorized people to enter the periphery of the fire source.

Un suitable extinguishing media: Water in jet. Use of Halon extinguishers should be avoided for environmental reasons.

Hazard statement; By a fire, it can occur with pungency or toxic Hume

Special protective equipment and precautions for fire fighters :

Fire fighters should wear boots,overalls,gloves eye and face protection and breathing apparatus.

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**6 . ACCIDENTAL RELEASE MEASURE**

- 1) Wearing protective equipment to prevent contact to eyes and the skin  
(designated in Section 8)
- 2) Forbid unauthorized people to enter the periphery of spill area.
- 3) Avoid that the spill does not flow out into sewers, rivers, etc. to cause secondary disasters or environment contaminations.
- 4) Collect in the covered vacant container with sand or a waste , and dispose in conformity with a law.

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**7 . HANDLING AND STORAGE**

Handring; Use appropriate personal protective equipment as specified in Section 8.  
Handle in a well ventilated area.

Do not absorb and swallow it. Inhalation of fume or mine dust may cause metal fever.  
Wash hands after work.

Storage; After use, stopper tightly to prevent the introduction of dust, water, etc.  
Avoid direct sunlight. Never put this product close to fire or heat sources.  
Well closed.

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**8 . EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure guidelines Contains no volatile ingredients that require exposure control.

Exposure limits ; Not established.

Engineering controls; Especially under the high heat process, toxic fumes are formed. Handle in a well ventilated area.

Personal protective equipment;

Eyes and face ; Wear chemical splash goggles and face shield when eyes and face contact is possible due to spraying of material.

Skin ; Where contact is likely , wear neoprene chemical resistant glove , a chemical suit , rubber boots , chemical safety goggles and a face shield.

Respiratory ; Always wear respiratory protective equipment when vapor or mists may exceed applicable concentration limits.

Work hygienic Do not eating and drinking or smoking while using this material.  
After working, wash hands and gargle.

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**9 . PHYSICAL AND CHEMICAL PROPERTIES**

Physical State ; Paste (color : red)

Odor ; Slight characteristic odor

pH ; Not available

Bolling Point; Not available

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|                               |                |
|-------------------------------|----------------|
| Flash point;                  | > 230          |
| Freezing Point;               | Not available  |
| Vapor Pressure ;              | Not available  |
| Vapor Density ;               | Not available  |
| Density ;                     | 1.2 (20 )      |
| Solubility in Water ;         | Negligible     |
| Solubility in other solvent : | Soluble in oil |
| Evaporation Rate:             | Not available  |

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## 10. STABILITY AND REACTIVITY

Stability ; Stable  
Conditions and materials to avoid: Extremes of temperature and direct sunlight.  
Hazardous decomposition product ; Not available.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD<sub>50</sub> ; 2500mg/kg (rat) by ZnO  
Inhalation LD<sub>50</sub> ; Not Available

### Corrosive / pungency

Skin : Not identified ( no corrosive in examinational rat)  
This material is not corrosive to the skin.

Eye : Not identified ( no corrosive in examinational rat)  
This material is not corrosive to the skin.

Sensitization : No information available

Reproductive effects ; No information available

Germ cell mutagenicity : No information available

Carcinogenicity ; No available

Specific target organ systemic toxicity from single exposure; CATEGORY 1  
Inhalation of fume may cause metal fever by Zinc oxide

Specific target organ systemic toxicity from repeated exposure; CATEGORY 1  
Zinc oxide may cause an obstacle to lungs from repeated exposure.

Aspiration toxicity; No information available

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## 12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment

Acute hazard : EC50(Selenastrum capricornutum,72hours) 170mgZnO LISEC 1997  
CATEGORY 1

Chronic hazard ; Acute hazard CATEGOLY 1  
Biological accumulation potential (BCF=217<sub>20</sub>) by ZnO  
CATEGOLY 1

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## 13. DISPOSAL CONCIDERATIONS

Perform waste processing appropriately in accordance with the Waste Disposal and Public Cleaning Law.  
Perform waste processing by relegating it to industrial waste disposal businesses that process industrial waste and are approved by prefectural governors or local public authorities.  
Do not dump into sewer, on the ground or into any body of water  
Follow national and local regulations.

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## 14. TRANSPORT INFORMATION

Marine regulation : Not available  
Aviation regulation : Not available  
UN Hazard Class : Not available  
UN Number : Not available

Confirm that there is no leakage from containers. Load the products so that there are no overturns, fall or damage. Be sure to prevent collapse of cargo.

## 15. REGULATORY INFORMATION

Follow all regulations in your country.

RoHS Statement : SHINMYOTAN does not contain Pb, Hg, Cd, Cr, PBBs, PBDEs as listened in RoHS Directives.

## 16. OTHER INFORMATION

TSCA Status : All ingredients of this product are listened on TSCA Inventory of Chemicals.

Product Liability Law : contract with product liability insurance in Japan

NFPA704 : Health : 1 Flammability : 1 Instability : 1

## DISCLAIMER

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

### English Edition

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