Material Safety Data Sheet

Date of issuing : 2006/03/01
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1. IDENTIFICATION OF THE SUBSTANCE/PREPAPATION AND THE COMPANY

Product name :	SHINMYOTAN N-RED-T （新明丹Ｎ－レッド－Ｔ）
Name of company :	NAKATANI & Co., Ltd
Address :	3-9-3, Yushima, Bunkyo-ku, Tokyo. Japan
Charge section :	Industrial Equipment Group
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Emergency telephone № :	03-3833-1601
Recommend use of the chemical and restrictions on use :	marking and various confirmatory test agent
Reference number:	E-300803

2. HAZARDS IDENTIFICATION

GHS hazard class

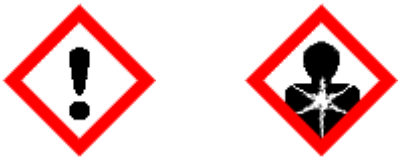
Physical properties: Flammable liquid; Not classified

Hazard classes for effects to human health:
Acute toxicity(ingestion); Not classified
(through the skin): Not classified
(by inhalation mist); Category 4
Skin corrosion/irritation; Category 3
Serious eye damages/eye irritation; Category 2B
Sensitization (respiratory); Classification not possible
Sensitization(skin); Not classified
Germ cell mutagenicity; Category 2
Cacinogenicity; Not classified
Toxic to reproduction; Classification not possible
Effects in or via lactation ; Classification not possible
Specific target organ systemic toxicity from single exposure; Category 2
Specific target organ systemic toxicity from repeated exposure; Category 1
Aspiration toxicity; Category 1

Hazard classes for effects to the environment:
Acute hazard; Classification not possible
Chronic hazard; Classification not possible

Label and Package

HAZARD symbols : Exclamation mark ,Health hazard



Signal word: DANGER

Hazard information
- May be harmful if inhaled
- Cause eye irritation

- Cause skin irritation
- May cause genetic damage in humans
- Cause damage to central nervous system,lungs and peripherl nervous system through prolonged or repeated exposure.
- May harmful if swallowed and enters airways.

Package information

【safty measures】

- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/eye protection/face protection.
- When opening, please wear protective gloves to prevent cutting hands.
- 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.
Mineral Oil	Unspecified	90～95	non-disclosure
Polyoxyethylene polyoxypropylene monobutylether	$C_4H_{10}O(C_3H_6OC_2H_4O)_x$	3～5	9038-95-3
Insoluble disazo orange	$C_{34}H_{32}N_6O_6$	3～5	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.

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

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 worst symptom Treat symptomatically. Aspiration into the lungs may result in chemical

Pneumonitis and may become fatal.
The person for first aid wear a tool for protection

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 sulfurous acid gas, carbon monoxide.

Special protective equipment and precautions for fire fighters :
Fire fighters should wear boots,overalls,gloves eye and face protection and breathing apparatus.

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 comformity with a law.

7. HANDRING AND STORAGE

Handring; Use appropriate personal protective equipment as specified in Section 8.
Handle in a well ventilated area.
Wash hands after work.
Do not handle or store near heat , sparks or other potential ignition source.

Storage; After use, stopper tightly to prevent the introduction of dust, water, etc.
Avoid direct sunlight. Never put this product close to fire , heat sources, strong oxidizing agents , strong acids or halogen.
Use non-sparking handtools by grounding.
Well closed.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State ;	liquid (color : red)
Odor ;	Slight characteristic odor
pH ;	Not available
Bolling Point;	200~410℃
Flash point;	> 153℃ (COC)
Freezing Point;	Not available
Vapor Pressure ;	Not available
Vapor Density ;	Not available
Density ;	0.87 (20℃)
Solubility in Water ;	Negligible
Solubility in other solvent :	Soluble in oil
Evaporation Rate :	Not available

10. STABILITY AND REACTIVITY

Stability ; Stable

Conditions and materials to avoid: Strong oxidizing agents , storng acids , alkalied, halogen.

Hazardous decomposition product ; By a fire, it can occur with sulfurous acid gas, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD_{50} ; 5000mg/kg (rat)

Inhalation LD_{50} ; 5000mg/kg (rat)

Corrosive / pungency

Skin : Category 3

Eye ; Category 2B

Sensitization : Not available

Reproductive effects ; Not available

Germ cell mutagenicity : Category 2

There is a reports petroleum hydrocarbon increased an abnormal cells on chromosome aberration tests. (rat) (*a)

The frequency increase of the chromosome aberration was observed in the erasion lymphocyte of the person who took occupation revelation. (*b)

Carcinogenicity ; IARC group 3 (petroleum hydrocarbon)

Not classified (67/548/EC)

Specific target organ systemic toxicity from single exposure; Category 2 (petroleum hydrocarbon)

Specific target organ systemic toxicity from repeated exposure; Category 1 (petroleum hydrocarbon)

Aspiration toxicity; Category 1 (petroleum hydrocarbon)

12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment

Acute hazard : No information available

Chronic hazard ; No information available

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.

14. TRANSPORT INFORMATION

Marine regulation : Not regulated for sea transport
Aviation regulation : Not regulated for air transport
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 directive : No contain Pb, Hg, Cd, Cr, PBBs, PBDEs

16. OHER 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

Refernce materials

a) Advices such as the permission density, Japan Industrial Hygiene society (2006)
b) ACGIH (American Conference of Governmental Industrial Hygienisits) (2004)
c) IARC (International Agency for Research on Cancer) suppl.7 (1987)
d) EC directive (67/548/EEC)
e) WHO/IPCS (EHC)
f) WHO/IPCS (ICSC) International Chemical Safety Cards (2001)

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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Revised 03	2012/12/07	Reference No. 300403E
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