SAFETY DATA SHEET

Date of issuing: 2006/03/01 Date of revised: 2020/10/27

1. Chemical Product and Company Identification

Product name : SHINMYOTAN N-RED

Information on company

Company name : NAKATANI CO. LTD.

Address : 3-9-3 Yushima, Bunkyo-ku, Tokyo, Japan

Relevant division : Industrial Equipment Group

Relevant person : Hiroshi Yanagisawa
Phone number : +03-3833-1601
Fax number : +03-3833-1578

E-mail address : <u>yanagisawa@nakatani-grp.co.jp</u>

Emergency telephone : +03-3833-1601

Recommended use of the chemical : Mold contact inspection and fitting inspection agents to

: Not applicable

and restrictions on use processed products

Reference Number : E-301301

2. Hazards Identification

GHS classification

Physical and chemical hazards

Explosives : Not applicable
Flammable gases : Not applicable
Aerosols : Not applicable
Oxidizing gases : Not applicable
Gases under pressure : Not applicable
Flammable liquids : Not applicable
Flammable solids : Not classified

Self-reactive substance and

mixture : Not applicable

Pyrophoric liquids : Not applicable
Pyrophoric solids : Not classified

Self-heating substance and

mixture : Not classified

Substance and mixtures which, in

contact with water, emit

flammable gases

Oxidizing liquids : Not applicable
Oxidizing solids : Not classified
Organic peroxides : Not applicable

Corrosive to metals : Classification not possible

Health hazards

Acute toxicity (Oral) : Not classified

Acute toxicity (Dermal) : Classification not possible

Acute toxicity (Inhalation: Gases) : Not applicable

Acute toxicity : Classification not possible

(Inhalation: Vapours)

Acute toxicity (Inhalation: Dusts) : Not classified Acute toxicity (Inhalation: Mists) : Not applicable

Skin corrosion/irritation : Classification not possible Serious eye damage/eye irritation : Classification not possible Respiration Sensitization : Classification not possible Skin sensitization : Classification not possible Germ cell mutagenicity : Classification not possible Carcinogenicity : Classification not possible

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 1 (lungs, systemic toxicity)

(Single exposure)

Specific target organ toxicity : Classification not possible

(Repeated exposure)

Aspiration Hazard : Classification not possible

Environmental hazards

Acute hazardous to the aquatic : Category 3

environment

Chronic hazardous to the aquatic environment

Hazardous to the ozone layer

: Classification not possible

: Category 3

GHS label elements:

Pictogram



Signal words : Danger

Hazard statements : Suspected of damaging fertility or the unborn child

> Causes damage to organs (lungs, systemic toxicity) Harmful to aquatic life with long lasting effects

Precautionary statements : [Safety Measure]

Do not handle until all safety precautions have been read and

understood.

Do not breathe dust.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

When opening, please wear protective gloves

to prevent cutting hands.

[First Aid]

If exposed or concerned: Call a doctor. Get medical

advice/attention.

[Storage]

Store locked up.

Disposal [Disposal]

Dispose of contents/container in accordance with local/

regional/national/international regulations.

Other information : Keep container tightly closed after use.

Avoid direct sunlight, and store in a cool and well-ventilated

place.

3. Composition/Information on Ingredients

Single chemical substance/mixture : Mixture **Information on composition and ingredients**:

Ingredient name	Chemical formula	Content (%)	CAS No.	Serial no. of government gazette
Zinc oxide	ZnO	35~45	1314-13-2	(1)-561
Mineral oil	Unspecified	30~40	non-disclosure	
Aluminum stearate	C ₁₈ H ₃₇ AlO ₄	5~15	7047-84-9	
Insoluble disazo orange	C34H32N6O6	5~15	6505-28-8	
Polyoxyethylene polyoxypropylene monobutyl ether	C ₄ H ₁₀ O (C ₃ H ₆ OC ₂ H ₄ O)x	3~10	9038-95-3	(7)-97

4. First-aid Measures

If inhaled : Remove person to fresh air and keep comfortable for

breathing. Blow nose and gargle.

If on skin : Wash the part adhered of this product with plenty of water

and soap.

If in eyes : Rinse sufficiently with clean water, and if irritation persists,

get medical advice/attention.

If swallowed : Give water or milk, and induce vomiting, and then, get

medical advice/attention.

Expected important symptoms/

effects, acute and delayed

: Inhalation: Sore throat, headache, fever/body temperature rise, nausea, vomiting, feeling of weakness, chills, muscle

pain

The symptoms may come out later.

Oral ingestion: Abdominal pain, diarrhea, nausea, vomiting,

Most important signs and symptoms

Protection for first-aiders

: No information.

: Rescuers wear appropriate protective equipment depending

on the situation.

Special note to physician : The symptom of metal fume fever doesn't appear until

several hours elapsed.

Suitable extinguishing media	: Water and alkali salt mist, foam, carbon dioxide, dry		
	chemicals are effective.		
Fire-fighting method	: ① Shut off combustible sources to the origin of a fire.		
	② Use dry chemicals, carbon dioxide for early fire.		
	③ For large scale fire, it is effective to shut the air by foal extinguishing agents.		
	④ Cool surrounding facilities with water spray.		
	⑤ Extinguish fire from upwind, and wear protective		
	clothing without fail during fire-fighting.		
	⑥ Prohibit the entry of unauthorized person to the		
	surroundings where fire occurred.		
Unsuitable extinguishing media	: Straight water stream.		
Specific risk/hazard	: In case of fire, there is a possibility that irritant or corrosive		
•	fume is generated.		
Protection for fire-fighters	: Wear appropriate protective equipment, such as self-		
	contained respiratory apparatus during fire-fighting.		
ccidental Release Measures			
Personal precautions, protective	: Workers wear suitable protective equipment (see '8.		
equipment and emergency measures	Exposure Controls and Personal Protective Equipment'),		
	avoid contact with eyes and skin and avoid inhalation of gas.		
	Prohibit the entry of unauthorized person.		
Precautions for the environment	: Be careful to not damage to the environment by discharge into rivers and the like.		
Collection and neutralization	: Gather spilled material, collect into sealable container and		
Method for containment and clean-up	dispose it later.		
•	: Stop the leak, if not dangerous.		
Prevention of secondary hazards	: Prevent the entry into drains, sewers, basements or confined areas.		
Handling and Storage			
Handling:			
Technical measures	: Take engineering measures described in '8: Exposure		

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Technical measures	: Take engineering measures described in '8: Exposure		
	Controls and Personal Protective Equipment' and wear		
	appropriate protective equipment.		
Local exhaust/general ventilation	: Provide local exhaust and general ventilation described in		
	'8: Exposure Controls and Personal Protective Equipment'.		
Cautions for Safety Handling	: Do not eat, drink or smoke when using this product.		
	: Use only outdoors or in a well-ventilated area.		
	: Do not contact, breathe and swallow this product.		
	: Avoid breathe dust and fume.		

: Wash hands thoroughly after handling.

Avoid contact : See '10. Stability and Reactivity'.

Storage:

Technical measures : Does not require special technical measures.

Incompatible materials : See '10. Stability and Reactivity'.

Storage condition : For preventing contamination by dust or moisture or the like,

keep container tightly sealed after using.

Avoid direct sunlight, and keep away from fire and heat

sources, and store in dark place.

Containers and packing materials : No regulation of the packaging and container, but put into

sealable those are not damaged.

8. Exposure Controls and Personal Protective Equipment

Controlled exposure level : Not established.

Permissible exposure level : Not established. (Japan Society for Occupational Health,

(Exposure limit/Biological exposure 2005)

indices) Not established. (ACGIH, 2004)

Engineering controls : When dust and fume are generated during high heat

process, provide ventilation for exhaust to prevent

stagnation of the air pollutant.

It is desirable that provide facilities like eye cup and safety shower for eye and body washing near the handling place.

Personal protective equipment

Respiratory protection : Wear dust mask. Use air-supplied respirators, self-

contained breathing apparatus as depending on the

situation.

Hand protection : Wear protective gloves.

Eye protection : Wear protective equipment for eye and face, or both

respiratory protective equipment and eye protection.

Skin and body protection : Wear protective clothing and protective boots.

Hygiene measures : Do not eat, drink or smoke when handling.

Wash hands and gargles thoroughly after handling.

9. Physical and Chemical properties

Physical state, form, color, etc. : Semisolid (Red paste)

Odor : Slightly characteristic odor.

pH: : No data
Melting point, freezing point : No data
Boiling point, initial boiling point and : No data

boiling range

Flash point : 151°C (Seta closed cup)

Explosive range : No data

Vapor pressure : No data

Vapor density(air = 1) : No data

Specific gravity(density) : 1.2 (20°C)

Solubility : Insoluble in water
Partition coefficient (n-octanol/water) : Not applicable

Auto-ignition temperature : No data

Decomposition temperature : No data

Threshold of odor : Not applicable

Evaporation rate (Butyl acetate = 1) : No data

Flammability (solid, gas) : Heat of combustion: 20,730 J/g (JIS M8814)

Oxygen index:21.7

Viscosity : No data

10. Stability and Reactivity

Stability : Stable under normal temperature and pressure.

Hazardous reactivity Conditions to avoid Incompatible materials

Hazardous decomposition products : Currently no useful information.

11. Toxicological Information

Acute toxicity (Oral) : Oral $LD_{50} = 2500 \text{mg/kg}$ (Estimated value)

Skin corrosion/irritation : In skin irritation test with rabbit, because the result was 'not

irritating', it was classified as 'Not classified'.

Not corrosive to the skin.

Serious eye damage/eye irritation : Data on ingredient (Zinc oxide)

In the test which applied substance to three rabbits' conjunctival sac (OECD TG 405), the corneal opacity was not observed. The iritis was 'score 1' to just one animal only in 1-hour application. Conjunctival redness was score 1~2 to all cases, and it was fully recovered in 72 hours. In all cases, chemosis (in all cases, the secretion were 'score 1' only in after 1-hour application.) was 'score 2' only in after 1-hour application (EU-RAR (2004)). According to the above results,

it is classified as 'Not classified'.

Respiratory or skin sensitization : Respiratory sensitization: Currently no useful information.

Skin sensitization: Currently no useful information.

Germ cell mutagenicity : Currently no useful information.

Carcinogenicity : In EU/EPA, it is classified as 'not applicable'. (Zinc oxide)

Reproductive toxicity : Data on ingredient (Zinc oxide)

In the dietary administration until 15 days of pregnancy from 21 days before mating, there was reported the absorption of all fetuses at a concentration of 0.4%. In addition, in the dietary administration until 14 days from 0 day of pregnancy, there was reported the occurrence of stillbirth fetuses at concentration of 2000ppm or more. It was classified as 'Category 2' because the expression of the general toxicity of

dams have not been deny in the dose of above. : It was classified as 'Category 1' because may cause metal Specific target organ toxicity (single exposure) fume fever by inhalation of Zinc oxide in fine dust in product. Specific target organ toxicity : Due to insufficient data, it is 'Classification not possible'. (repeated exposure) Aspiration hazard : No data. 12. Ecological Information : Data on product: **Ecotoxicity** Hazardous to the aquatic Fishes (Oryzias latipes): 96hr-LC50 > 100mg/L environment acute hazard Crustacean (Daphnia magna) :48hr-EC50 = 27.4mg/L(Immobilization) Algae (Pseudokirchneriella subcaptitata) :72hr-ErC50 = 35.4mg/L(Growth inhibition) As above, it is classified as 'Category 3'. Harmful to aquatic life. Hazardous to the aquatic : Data on product environment chronic hazard Acute hazard is classified as Category 3. Since there is no other information, chronic hazard is classified as 'Category 3'. Harmful to aquatic life with long lasting effects 13. Precautions for Disposal Residual wastes : In the disposal, follow the relevant laws and regulations, and the standards of the local government. Entrust disposal to industrial waste disposal contractor who have obtained a license from prefectural governor, or if the local government is performing waste disposal, entrust them disposal. When entrusting the disposal of waste, announce the risk and hazard to the contractor sufficiently. Contaminated container and packages : Recycle containers after cleaning up or dispose of properly in accordance with relevant laws and the standards of the local government. If dispose the empty container, dispose after removing contents completely. 14. Transport Information International regulations : Air transport follow the regulation under IATA. Marine transport follow the regulation under IMDG. : Not applicable. **UN** number **UN class** : Not applicable. Japan domestic regulations

: Not applicable.

: Follow the regulation of Ship Safety Law.

Inland transport

Sea transport

Air transport : Follow the transportation methods that are defined in the

Civil Aeronautics Act.

Special safety measures : For transportation, avoid direct sunlight, and load containers

to not damage, corrosion, leak, and take prevention of cargo

collapse securely.

15. Regulatory Information

Industrial Safety and Health Act : Dangerous and Harmful Substances Subject to Notify Their

Names, etc.

Zinc oxide (Article 57-2, Enforcement order 18-2

Appended table 9) (No.188)

Mineral oil (Article 57-2, Enforcement order 18-2

Appended table 9) (No.168)

Water Pollution Control Act : Designated Substance

Zinc oxide (Zinc and Its Compounds)

Aluminum stearate (Aluminum and Its Compounds)

: Not applicable to designated Chemical Substances

Fire Service Act : Not applicable
Ship Safety Act : Not applicable
Marine Pollution Prevention Law : Not applicable
Civil Aeronautics Act : Not applicable

Chemical Management Promotion Law

(PRTR Law)

Import Trade Control Law : Applicable. (Appended table 1-16, Catch-all Controls)

16. Other Information

Information which is outside of MSDS

Product Liability Act : Participation in the Domestic products and completed

operations liability insurance

TSCA (Toxic Substances Control Act) : All ingredients are listed.

NFPA704 : Health=1 Flammability = 1 Instability =1

References:

① Food hygiene dictionary (Chuohoki publishing Co., Ltd)

- ② New 110 poisoning View in picture (HOKENDOHJINSHA Inc.)
- ③ Japan surfactant industry association: Data Sheet practices for surfactant safety and biodegradability
- ④ EC Annex I of Directive (67/548/EEC): Dangerous substance list
- Guideline of Material Safety Data Sheet Revised edition: Japan Chemical Industry Association
- ⑤ Japan society for occupational health: Recommendation of occupational exposure limit (2005)
- Working environment assessment standard (2005, April 1 Ministry of Health, Labour and Welfare)
- 8 Ministry of Economy, Trade and Industry: Toxicity about environment
- Ministry of Health, Labour and Welfare: Occupational Safety and Health Act
- ① NITE GHS Classification result

Notice:

This SDS is provided to businesses about hazardous chemical products as reference information to ensure the safe handling. Businesses who handle this product, please use it under understanding that it is necessary to take appropriate measures depending on the actual situation with the responsibility of own as refer to this SDS. Therefore, this SDS is not the guarantee of the safety.

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Revised 05	2011/10/01	Reference No.300801E
Revised 06	2014/07/10	Reference No. E-300901
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