### **SAFETY DATA SHEET**

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

#### 1. Chemical Product and Company Identification

Product name : SHINMYOTAN SP-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
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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

and restrictions on use processed products

Reference Number : E-301302

### 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

mixtures which, in : Not applicable

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

(Single exposure)

Specific target organ toxicity : Classification not possible

(Repeated exposure)

Aspiration Hazard : Classification not possible

**Environmental hazards** 

Acute hazardous to the aquatic

environment

Chronic hazardous to the aquatic

environment

Hazardous to the ozone layer

: Not classified

: Not classified

: Classification not possible

: Category 1 (lungs, systemic toxicity)

#### **GHS** label elements:

#### **Pictogram**



Signal words : Danger

Hazard statements : Suspected of damaging fertility or the unborn child

Causes damage to organs (lungs, systemic toxicity)

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. 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]

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 <sub>18</sub> H <sub>37</sub> AlO <sub>4</sub>	5~15	7047-84-9	
Insoluble disazo orange	C <sub>34</sub> H <sub>32</sub> N <sub>6</sub> O <sub>6</sub>	5~15	6505-28-8	
Polyoxyethylene polyoxypropylene monobutyl ether	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)x	3~10	9038-95-3	(7)-97
Azo lake	C <sub>18</sub> H <sub>13</sub> CIN <sub>2</sub> O <sub>6</sub> SBa	1~2	7585-41-3	(5)-3233

#### 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.

Fire Fighting Measures	
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 for
	extinguishing agents.
	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.
Accidental 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 avec and akin and avoid inhalation of
	avoid contact with eyes and skin and avoid inhalation of
	gas.
	•
Precautions for the environment	gas. Prohibit the entry of unauthorized person.
Precautions for the environment	gas.

# 7. Handling and Storage

Method for containment and clean-up

Prevention of secondary hazards

Handling:		
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'.	

dispose it later.

confined areas.

: Stop the leak, if not dangerous.

: Prevent the entry into drains, sewers, basements or

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 : 141°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: 24,430 J/g (JIS M8814)

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<sub>50</sub> = 2500mg/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.

Specific target organ toxicity (single exposure)

: It was classified as 'Category 1' because may cause metal fume fever by inhalation of Zinc oxide in fine dust in product.

Specific target organ toxicity

(repeated exposure)

Aspiration hazard : No data.

: Due to insufficient data, it is 'Classification not possible'.

### 12. Ecological Information

Ecotoxicity : Data on product:

Hazardous to the aquatic Fishes (Oryzias latipes): 96hr-LC50 > 100mg/L

environment acute hazard Crustacean (Daphnia magna)

:48hr-EC50 > 100mg/L(Immobilization)

Algae (Pseudokirchneriella subcaptitata)

:72hr-ErC50 > 100mg/L(Growth inhibition)

As above, it is classified as 'Not classified'.

Hazardous to the aquatic : Data on product

environment chronic hazard Algae (Pseudokirchneriella subcaptitata)

:72hr-NOELR<sub>r</sub> = 10mg/L(Growth inhibition)

As above, it is classified as 'Not classified'.

### 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.

UN number : Not applicable
UN class : Not applicable
Proper shipping name : Not applicable
Packing group : Not applicable

Japan domestic regulations

Inland transport : Not applicable.

Sea transport : Follow the regulation of Ship Safety Law.

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
- ⑤ Guideline of Material Safety Data Sheet Revised edition: Japan Chemical Industry Association
- ⑥ Japan society for occupational health: Recommendation of occupational exposure limit (2005)
- Working environment assessment standard (2005, April 1 Ministry of Health, Labour and Welfare)
- Ministry of Economy, Trade and Industry: Toxicity about environment
- (II) 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.

Issuing	2006/03/01	Reference No. 300102
Revised 01	2006/11/01	Reference No. 300202
Revised 02	2008/04/01	Reference No. 300302
Revised 03	2008/12/01	Reference No. 300402
Revised 04	2009/01/05	Reference No. 300502
Revised 05	2009/10/01	Reference No. 300602
Revised 06	2010/11/20	Reference No. 300702
Revised 07	2011/10/01	Reference No. 300802
Revised 08	2014/09/05	Reference No. E-300902
Revised 09	2014/11/07	Reference No. E-301002
Revised 10	2016/04/28	Reference No. E-301102
Revised 11	2016/08/25	Reference No. E-301202
Revised 12	2020/10/27	Reference No. E-301302