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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name **NIPPON SOLAREFLECT**
Intended Use Water-based Protective & Decorative Paint.

2. HAZARDOUS COMPONENT IDENTIFICATION

This product does not contain any hazardous substances.

3. HAZARDS IDENTIFICATION

Non-hazardous substance. May be harmful if swallowed and may cause skin and eye irritation.

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with large amounts of water for at least 15 minutes or until irritation subsides. Obtain medical attention if necessary.
Skin contact	In case of contact, wash skin with water and soap. If irritation persists, get medical attention.
Inhalation	Remove to fresh air immediately. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Keep at rest. Obtain medical attention if necessary.
Ingestion	DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention if necessary.

5. FIRE FIGHTING MEASURES

This product is not combustible and not considered to be a significant fire risk.

Extinguishing media	Carbon dioxide, foam or dry chemical type recommended.
Fire fighting advice	Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited.
Special information	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures	Avoid substance contact with eyes. Do not inhale vapours. Ensure supply of fresh air in enclosed rooms. Use personal protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
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Environment protection measures

Eliminate sources of ignition.
Keep public away.
Contain spilled liquid with sand or other non-combustible absorbent materials.
Wash area and prevent run-off into drains and sewerage system.
Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

Procedure for cleaning

Clean up all spills immediately.
Absorb spill with absorbent and inert material, then place in container.
Disposal in accordance to local regulations.

7. HANDLING AND STORAGE

Handling

Keep out of reach of children.
Handle containers with care. Open slowly in order to control possible pressure release. Do not pressurize containers.
Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes. For personal protection, see section 8.
Use only in areas from which all naked lights and other sources of ignition have been excluded. Protect from frost and extremes of temperature.

Storage

Keep containers tightly closed. Store in cool, dry and well-ventilated place at temperature between 20 degree C to 40 degree C away from heat and sources of ignition. Containers that are opened should be properly resealed and keep upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES :

Provide exhaust ventilation.
Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION MEASURES :

Respiratory protection

Wear appropriate respirators when ventilation is inadequate.

Hand protection

Use of rubber type gloves is recommended.

Eye protection

Use of safety glasses or goggles with side shields is recommended.

Skin / Body protection

Cotton or synthetic clothing is normally suitable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state)	Liquid
Colour	As per color card or special colors on request
Odour	Mild
Vapour pressure	Not available
Vapour density	Not available
Water solubility	Miscible
pH	8 – 10
Density (kg/l)	1.20 - 1.50 (depending on color)
Boiling point (°C)	Not available
Melting point (°C)	Not available

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Flash point (°C)	Not available
Auto ignition temperature (°C)	Not available
Evaporation rate	Not available
Others properties	Not available

10. STABILITY AND REACTIVITY

Stability	The product is stable under recommended storage and handling conditions. (See section 7).
Conditions to avoid	DO NOT expose to extreme heat, ignition sources or sparks.
Hazardous decomposition products	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen.
Materials to avoid (Incompatibility)	Keep away from oxidizing agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECT :

Eye contact	Prolong contact may cause eye irritation.
Skin contact	Prolong contact may cause skin irritation.
Inhalation	May cause irritation to mucous membranes of the respiratory system.
Ingestion	May cause nausea and vomiting.

CHRONIC EFFECT :

No information available on the product.

12. ECOLOGICAL INFORMATION

There are no data available on the product itself.
For spills or waste, take care to avoid contaminating the environment. The product should not be allowed to enter drains and watercourses

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.
Wastes and empty containers should be treated and disposed of in accordance with national and local regulations.

Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

For small quantities: Do not pour leftover paint down the drain. Unwanted paint should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Empty paint containers should be left open in a well-ventilated area to dry out before recycle, reuse or dispose.

To ensure compliance, consult national and local authorities.

14. TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

Land transport

Not classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous

goods (RID) by Rail.

Sea transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

Air transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air.

15. REGULATORY INFORMATION

Classification according to GHS Directives.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.