

MATERIAL SAFETY DATA SHEET

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | |
|--|--|-------------------|
| Product Name : | NIKKALITE™ R85 Series | <u>HMIS Codes</u> |
| Manufacture : | NIPPON CARBIDE INDUSTRIES CO., INC. | HEALTH : 0 |
| Address : | Taiyo-Life Shinagawa Building, 22nd floor 16-2, 2-Chome Konan, Minato-ku, Tokyo 108-8466 JAPAN | FLAMMABILITY : 1 |
| | | REACTIVITY : 0 |
| Telephone No. : | +81-3-5462-8225, Fax No.+81-3-5462-8271 | |
| Emergency Tel. No. : | +81-76-471-2134 (Films and Sheets Group_R&D center) | |
| Email: | reflective_sds@carbide.co.jp | |
| Recommended use of the product and restrictions on use : | Retroreflective Materials | |

Section 2. HAZARDS IDENTIFICATION

GHS Classification

| | |
|-------------------------|-------------------|
| Physical hazards : | No classification |
| Health hazards : | No classification |
| Environmental hazards : | No classification |

GHS Label Elements

| | |
|---------------------------|----------------|
| Symbols / Pictograms : | Not applicable |
| Signal word : | Not applicable |
| Hazard statement : | Not applicable |
| Precautionary statement : | Not applicable |

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Ingredient name</u> | <u>Percentage</u> | <u>CAS number</u> | <u>EINECS number</u> |
|--------------------------------|-------------------|-------------------|----------------------|
| Acrylic resin | 22 ~ 30 | — | — |
| Curing agent | 1 ~ 5 | — | — |
| Glass bead | 20 ~ 30 | 65997-17-3 | 266-046-0 |
| Aluminum | < 1 | 7429-90-5 | 231-072-3 |
| Acrylic resin (adhesive layer) | 8 ~ 14 | — | — |
| Liner paper | 28 ~ 38 | — | — |

| Grade Number | Sheeting Color | Pigment | Percentage | CAS number |
|--------------|----------------|-------------|------------|------------|
| R8512 | White | No addition | — | — |

Section 4. FIRST AID MEASURES

Not applicable.

Section 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media :

Carbon dioxide. Dry chemical. Foam. Water spray.

Fire-Fighting Equipment :

Wear full protective clothing, including helmet and face mask, self-contained, positive pressure or pressure demand breathing apparatus.

Section 6. ACCIDENTAL RELEASE MEASURES

Not applicable.

Section 7. HANDLING AND STORAGE

Precautions for Safety Storage :

Store in a cool place and keep dry. Store away from heat and direct sunshine.

Precautions for Safety Handling :

Handle under the normal usage

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No special matters.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|----------------|
| Appearance and Odor : | Sheeting |
| pH : | Not applicable |
| Boiling point : | Not applicable |
| Melting point : | Not determined |
| Flash point : | Not determined |
| Ignition point : | Not determined |
| Vapor pressure : | Not applicable |
| Water Solubility : | Insoluble |
| Specific gravity : | 1.2 ~ 1.5 |
| Vapor density : | Not applicable |
| Evaporation rate : | Not applicable |
| Viscosity : | Not applicable |

Section 10. STABILITY AND REACTIVITY

Stability :

Stable under the normal conditions.

Hazardous Polymerization :

Not occur.

Section 11. TOXICOLOGICAL INFORMATION

No special data are available.

Section 12. ECOLOGICAL INFORMATION

No specific data are available.

Since regulations vary, consult applicable regulations or authorities before disposal.

Section 13. DISPOSAL CONSIDERATIONS

Any disposal materials must be in compliance with local, state and federal laws and regulations.

Section 14. TRANSPORTATION INFORMATION

| | |
|---------------------------|----------------|
| UN Number : | Not applicable |
| UN Class : | Not applicable |
| International restriction | |
| ADR / RID : | Not applicable |
| IMDG information : | Not applicable |
| Marine pollutant : | Not applicable |
| IATA information : | Not applicable |

Any carton boxes must be confirmed damage.

Those boxes must be loaded up with no damage, no fall, no drop.

Section 15. REGULATORY INFORMATION

No special matters.

Section 16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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