

MATERIAL SAFETY DATA SHEET

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Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : NIKKALITE™ R85 Series HMIS Codes
Manufacture : NIPPON CARBIDE INDUSTRIES CO., INC. HEALTH : 0
Address : Taiyo-Life Shinagawa Building, 22nd floor FLAMMABILITY : 1
16-2, 2-Chome Konan, Minato-ku, Tokyo REACTIVITY : 0
108-8466 JAPAN
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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