

NIKKA POLYMER CO., LTD. ISO 9001

[Retroreflective Products ELG 48000 Series] 48000-2C

MATERIAL SAFETY DATA SHEET

Issued : April 26, 2002

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : NIKKALITE™ ELG 48000 Series
Manufacture : NCI(HANGZHOU) CO., LTD.
Address : No.99 Hongda Road Qiaonan-Qu, Xiaoshan Economic & Technology Development Zone, Hangzhou China HMIS Codes
Telephone No. : 0571-82696666, Fax No. 0571-82696473 China HEALTH : 0
Emergency Tel. No. : 0283-23-9616 Japan FLAMMABILITY : 0
REACTIVITY : 0

Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient name</u>	<u>Percentage</u>	<u>CAS number</u>	<u>EINECS number</u>
Polyester resin	3 ~ 8	-	-
Polyurethane resin	2 ~ 4.5	-	-
Acrylic resin	10 ~ 16	-	-
Curing agent	2 ~ 3	-	-
Glass bead	20 ~ 30	-	-
Aluminum	< 1	7429-90-5	231-072-3
Acrylic resin (Adhesive layer)	8 ~ 14	-	-
Liner paper	35 ~ 45	-	-

Grade Number	Sheeting Color
48003P	Black
48004P	Yellow
48005P	Red
48025P	DarkRed
48035P	Light Red
48006P	Blue
48046P	Sky Blue
48077P	Orange
48008P	Green
48009P	Brown
48010P	Gold
48012P	White

Section 3. HAZARDS IDENTIFICATION

Critical hazards : Flammable

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

Remove all sources of ignition and prepare the digestive organs.

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

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.