

MATERIAL SAFETY DATA SHEET AS PER DIRECTIVE 2001/58/EC

10344REF IMAGEBRITE REFLECTIVE BASEVersion Number 1.0
Revision Date 26.02.2004Page 1 of 6
Print Date 1.7.2004**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**

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Telephone : Product Stewardship +32 (0) 83 660 353
Emergency Phone Number : Product Stewardship +32 (0) 83 660 353Product name : 10344REF IMAGEBRITE REFLECTIVE BASE
Product code : FO00000394Z1
Chemical Name : Preparation
CAS-No. : Preparation
Product Use : Dipping and coating**2. COMPOSITION/INFORMATION ON INGREDIENTS**

There are no known hazardous components above regulatory thresholds in this product.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Classification of the

Preparation:

:
:
: Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC. The product does not need to be labelled in accordance with EC directives or respective national laws.

Routes of Exposure:

: Inhalation, Skin contact, Ingestion

Acute exposureInhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion : May be harmful if swallowed.
Eyes : May cause eye/skin irritation.
Skin : Experience shows no unusual dermatitis hazard from routine handling.**Chronic exposure**

: Refer to Section 11 for Toxicological Information.

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Medical Conditions : None known.
Aggravated by Exposure:

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

Eyes : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : No data available

Flammable Limits
 Upper explosion limit : No data available
 Lower explosion limit : No data available

Autoignition temperature : Not applicable

Suitable extinguishing media : Carbon dioxide blanket, water spray, dry powder, foam

Extinguishing media not to be used : none

Special Fire Fighting Procedures : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Special exposure hazard arising from combustion products, resulting gases, etc. : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : The product should not be allowed to enter drains, water courses or

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the soil. Should not be released into the environment.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

Handling : Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.

Specific use(s) : Not determined

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Under normal handling conditions a respirator may not be required.

Eye/Face Protection : Safety glasses with side-shields.

Hand protection : Protective gloves. Refer to equipment supplier to ensure protection.

Skin and body protection : Long sleeved clothing.

Additional Protective Measures : Safety shoes.

General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Environmental exposure controls : Not determined

Exposure limit(s)

This material does not contain any hazardous substances as per regulatory requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Evaporation rate	: Not established
Appearance	: Viscous, liquid	Specific Gravity:	: Not determined
Color	: GREY	Bulk density	: Not applicable

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Odor	: Very faint	Vapor pressure	: Not determined
Melting point/range	: Not applicable	Vapour density	: Not determined
Boiling Point:	: No data available	pH	: Not determined
Water solubility	: Immiscible	Partition coefficient (n-octanol/water)	: No data available
Fat solubility	: Not determined	Viscosity	: No data available
Oxidizing properties	: Not applicable		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

11. TOXICOLOGICAL INFORMATION

Carcinogenicity, Mutagenicity and Toxicity to Reproduction
Not applicable

12. ECOLOGICAL INFORMATION

Persistence and degradability	: Not readily biodegradable.
Mobility	: No data available
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.
Bioaccumulation Potential	: No data available
Additional advice	: No data available

13. DISPOSAL CONSIDERATIONS

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Product	:	Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	:	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

ADR (road)	:	Refer to specific regulation.
RID (rail)	:	Refer to specific regulation.
ADN (inland waterways)	:	Refer to specific regulation.
ICAO/IATA (air)	:	Refer to specific regulation.
IMO / IMDG (maritime)	:	Refer to specific regulation.

15. REGULATORY INFORMATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC. The product does not need to be labelled in accordance with EC directives or respective national laws.

National Inventories:

Europe EINECS	:	Listed
Australia AICS	:	Listed
Canada DSL:	:	Listed
China IECS	:	Not determined
Japan ENCS	:	Not determined
Korea KECI	:	Listed
Philippines PICCS	:	Listed
United States TSCA:	:	Listed

16. OTHER INFORMATION

Text of R-phrases referred to in section 2

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