PolyOne

MATERIAL SAFETY DATA SHEET 10555-41 NAVY BLUE MATTE PLASTISOL

Version Number 1.1 Revision Date 03/21/2013

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

| Telephone Emergency telephone number | : | 1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |
|--|---|--|
| Product name | : | 10555-41 NAVY BLUE MATTE PLASTISOL |
| Product code | : | FO20021499 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | : | Industrial Applications |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight percent |
|-------------------|------------|----------------|
| Titanium dioxide | 13463-67-7 | 0.1 - 1 |
| Calcium carbonate | 1317-65-3 | 1 - 5 |
| Calcium oxide | 1305-78-8 | 1 - 5 |

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

| Routes of Exposure: | : Inhalation, Skin contact, Ingestion |
|----------------------------|--|
| Acute exposure | |
| Inhalation | : Inhalation of airborne droplets may cause irritation of the respiratory tract. |
| Ingestion | : May be harmful if swallowed. |
| Eyes | : May cause eye and skin irritation. |
| Skin | : Experience shows no unusual dermatitis hazard from routine handling. |
| | |

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| | N | |
|---|--|-----------|
| Medical Conditions Aggravated by Exposure: | : None known. | |
| | 4. FIRST AID MEASURES | |
| Inhalation | : Move to fresh air in case of accidental inhalation of fumes fro overheating or combustion. When symptoms persist or in all doubt seek medical advice. | |
| Ingestion | : Do not induce vomiting without medical advice. When symp persist or in all cases of doubt seek medical advice. | toms |
| Eyes | : Rinse immediately with plenty of water for at least 15 minute irritation persists, seek medical attention. | s. If eye |
| Skin | : Wash off with soap and plenty of water. If skin irritation personal seek medical attention. | sists |
| | 5. FIREFIGHTING MEASURES | |
| Flash point | : no data available | |
| Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media | no data available no data available Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. | |
| Special Fire Fighting Procedures | : Fullface self-contained breathing apparatus (SCBA) used in p pressure mode should be worn to prevent inhalation of airbor contaminants. | |
| Unusual Fire/Explosion Hazards | : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CC fire conditions. Carbon dioxide (CO2), carbon monoxide (CC oxides of nitrogen (NOx), other hazardous materials, and smo all possible. | D), |
| | 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 cour the soil. Should not be released into the environment. | ses or |
| Methods for cleaning up | : Soak up with inert absorbent material (e.g. sand, silica gel, ac binder, universal binder, sawdust). Package all material in appropriate container for disposal. | id |

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| 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. |
| 8. EX | POSU | RE CONTROLS/PERSONAL PROTECTION |
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Eye/Face Protection | : | Safety glasses with side-shields |
| Hand protection | : | Protective gloves |
| 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. |

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| Components | Value | Exposure time | Exposure type | List: |
|-------------------|----------|--------------------------------------|----------------------|----------|
| Calcium carbonate | 5 mg/m3 | PEL: | Respirable fraction. | OSHA Z1 |
| | 15 mg/m3 | PEL: | Total dust. | OSHA Z1 |
| | 10 mg/m3 | Time Weighted Average (TWA): | | MX OEL |
| | 20 mg/m3 | Short Term Exposure Limit (STEL): | | MX OEL |
| Calcium oxide | 2 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| | 2 mg/m3 | Recommended exposure limit (REL): | | NIOSH |
| | 5 mg/m3 | PEL: | | OSHA Z1 |
| | 5 mg/m3 | Time Weighted Average (TWA): | | OSHA Z1A |
| | 2 mg/m3 | Time Weighted Average (TWA): | | MX OEL |
| Titanium dioxide | 10 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| | 15 mg/m3 | PEL: | Total dust. | OSHA Z1 |
| | 10 mg/m3 | Time Weighted Average (TWA): | Total dust. | OSHA Z1A |
| | 10 mg/m3 | Time Weighted Average (TWA): | as Ti | MX OEL |
| | 20 mg/m3 | Short Term Exposure Limit (STEL): | as Ti | MX OEL |

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility

viscous, liquid BLUE : very faint : not applicable : not applicable : immiscible

: liquid

:

:

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pН

- : Not established
- Not determined : Not applicable :
- : Not determined
- : Not determined
- : Not applicable

10. STABILITY AND REACTIVITY

| Stability | : | The product is stable if stored and handled as prescribed. |
|--------------------------|---|---|
| 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 | : | Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen |

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products

(NOx), 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

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

| CAS-No. | Chemical Name | Effect | Target Organ |
|------------|-------------------|------------------|-------------------------|
| 13463-67-7 | Titanium dioxide | Systemic effects | Respiratory system. |
| 1317-65-3 | Calcium carbonate | Irritant | Eyes, Skin. |
| | | Systemic effects | Eyes, Skin, Respiratory |
| | | | system. |
| 1305-78-8 | Calcium oxide | Irritant | Skin. |
| | | Systemic effects | Eyes, Skin, Respiratory |
| | | | system. |
| | | Corrosive | Skin. |

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

| CAS-No. | Chemical Name | OSHA | IARC | NTP |
|------------|------------------|------|------|-----|
| 13463-67-7 | Titanium dioxide | no | 2B | no |

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

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

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| | 13. DISPOSAL CONSIDERATIONS |
|------------------------------|---|
| 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 |
| U.S. DOT Classification | : Refer to specific regulation. |
| ICAO/IATA | : Refer to specific regulation. |
| IMO/IMDG (maritime) | : Refer to specific regulation. |
| | 15. REGULATORY INFORMATION |
| US Regulations: | |
| OSHA Status | : Classified as hazardous based on components. |
| TSCA Status | : All components of this product are listed on or exempt from the TSCA Inventory. |
| US. EPA CERCLA Hazardo | us Substances (40 CFR 302) |
| not applicable | |
| | |
| California Proposition 65 | n : Not applicable |
| | |
| SARA Title III Section 302 I | Extremely Hazardous Substance |
| | |
| | e identified under this section, this product is Not Applicable under this regular |

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Canadian Regulations:

| Chemical Name | | | -No. | Weight | NPRI ID# |
|---------------------------|-----------|---|------|-------------|------------|
| | | | | percent | |
| Phthalocyanine blue | | | 14-8 | 0.10 - 1.00 | |
| Miscellaneous Zinc Compou | inds | 0-05- | -5 | 0.10 - 1.00 | 241 |
| | | | | | |
| WHMIS Classification | : D2 | 2A | | | |
| WHMIS Ingredient Dis | closure I | ist | | | |
| CAS-No. 1305-78-8 | | | | | |
| DSL | | ll components of this bstances List (DSL) | | | n Domestic |
| ational Inventories: | | | | | |
| Australia AICS | : No | ot determined | | | |
| China IECS | : No | ot determined | | | |
| Europe EINECS | : No | ot determined | | | |
| | · No | ot determined | | | |
| Japan ENCS | | | | | |
| Japan ENCS Korea KECI | | ot determined | | | |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.