

MATERIAL SAFETY DATA SHEET

TAN 728C

Version Number 1.1 Revision Date 02/03/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

| NON-EMERGENCY TELEPHONE | : | Product Stewardship (770) 271-5902 |
|----------------------------|---|--|
| Emergency telephone | : | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |
| Product name | : | TAN 728C |
| Product code | : | CC10015068 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | : | Industrial Applications |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | 10 - 30 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

POTENTIAL HEALTH EFFECTS

| Routes of Exposure: | : Inhalation, Ingestion, Skin contact |
|---|---|
| Acute exposure | |
| Inhalation Ingestion Eyes | Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to eyes. |
| Skin | : Experience shows no unusual dermatitis hazard from routine handling. |
| Chronic exposure | : Refer to Section 11 for Toxicological Information. |
| Medical Conditions Aggravated by Exposure: | : None known. |



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| | 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, also under the eyelids, for a least 15 minutes. If eye irritation persists, seek medical attention. |
| Skin | : Wash off with soap and plenty of water. If skin irritation persists see medical attention. |
| | 5. FIRE-FIGHTING MEASURES |
| Flash point | : Not applicable |
| Flammable Limits | |
| Upper explosion limit | : Not applicable |
| Lower explosion limit | : Not applicable |
| Autoignition temperature | : Not applicable |
| Suitable extinguishing media | : Carbon dioxide blanket, water spray, dry powder, foamnone. |
| Special Fire Fighting Procedures | : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. |
| Unusual Fire/Explosion | : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen |
| Hazards | (NOx), other hazardous materials, and smoke are all possible. |
| | 5. ACCIDENTAL RELEASE MEASURES |
| Personal precautions | : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls. |
| Environmental precautions | : Should not be released into the environment. The product should no be allowed to enter drains, water courses or the soil. |
| Methods for cleaning up | : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1 of this MSDS for proper disposal methods. |
| | 7. HANDLING AND STORAGE |
| Handling | : Take measures to prevent the build up of electrostatic charge Heat only in areas with appropriate exhaust ventilation. |
| Storage | : Keep containers dry and tightly closed to avoid moisture absorption |



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| 8. E | XPOSURE | CONTROLS / PER | RSONAL | PROTECTION | |
|-----------------------------------|---|---|------------------------------------|-----------------------|-----------------|
| Respiratory protection | : N | lo personal respirator | ry protecti | ve equipment normal | ly required. |
| Eye/Face Protection | : Safety glasses with side-shields. | | | | |
| Hand protection | : Protective gloves. | | | | |
| Skin and body protection | : Long sleeved clothing. | | | | |
| Additional Protective Measures | : S | : 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. | | | | |
| Exposure limit(s) | | | | | |
| Components | Value | Exposure tin | ne | Exposure type | List: |
| Titanium dioxide | 10 mg/m3 | Time Weighted A | | | ACGIH |
| | 15 / 0 | (TWA): | | | 0.000 |
| | 15 mg/m3 | PEL: | | Total dust. | OSHA Z1 |
| | 9. PHYSIC | CAL AND CHEMI | CAL PRO | PERTIES | |
| Form | : Solid | 1 | Evapor | ration rate : N | Not applicable |
| Appearance | : Pelle | | Specific Gravity: : Not determined | | |
| Color | : YEL | LOW | Bulk d | | Not established |
| Odor | : Very faint | | | | Not applicable |
| Melting point/range | : Not determined | | Vapour density : Not applicable | | |
| Boiling Point: | | applicable | pH : Not applicable | | |
| Water solubility | : Insol | luble | | | |
| | 10. 8 | STABILITY AND F | REACTIV | ITY | |
| Stability | : S | table. | | | |
| Hazardous Polymerization | n : W | Vill not occur. | | | |
| Conditions to avoid | | keep away from oxid ecomposition, do not | | ts and open flame. T | o avoid thermal |
| Incompatible Materials | · Ir | ncompatible with stro | ng acids : | and oxidizing agents. | |



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Hazardous decomposition:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogenproducts(NOx), other hazardous materials, and smoke are all possible.

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. | | | |
| | 12. ECOLOGI | CAL INFORMATION | I | | | |
| Persistence and degrada | ability : Not readily b | iodegradable. | | | | |
| Environmental Toxicity | | : Chemicals are not readily available as they are bound within the matrix of the polymer. | | | | |
| Bioaccumulation Poten | | : Chemicals are not readily available as they are bound within the matrix of the polymer. | | | | |
| Additional advice | : No data avail | lable | | | | |
| | 13. DISPOSAL | CONSIDERATIONS | } | | | |
| Product Contaminated packagin | g : Recycling is has the respo and disposal | Like most thermoplastic plastics the product can be recycled. 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. 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. TRANSPO | RT INFORMATION | | | | |
| U.S. DOT Classificatio | n : Not regulated | l for transportation. | | | | |
| ICAO/IATA (air) : Refer to specific regulation. | | | | | | |
| IMO / IMDG (maritime | e) : Refer to spec | ific regulation. | | | | |
| | 15. REGULAT | ORY INFORMATION | Ň | | | |
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| OSHA Status : Classified as hazardous based on TSCA Status TSCA Status : All components of this product a Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable Not applicable California Proposition : California Proposition : This product does not contain as 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: CASS- ZINC COMPOUNDS 68187 Canadian Regulations: National Pollutant Release Inventory (NPRI) 68187 SL : All components of this product a Substance center of the product a Substance cente | | Print Date | Page 5 of 11/13/201 | | |
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| Not applicable California Proposition : SARA Title III Section 302 Extreme Hazardous Substance Not applicable SARA Title III Section 313 Toxic Hazardous Substance Canadian Regulations: National Pollutant Release Horry (NPRI) MHMIS Classification : DSL DSL Australia AICS : Austraia <t< td=""><td>re listed on or ex</td><td>xempt from t</td><td>he TSCA</td></t<> | re listed on or ex | xempt from t | he TSCA | | |
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| Not applicable SARA Title III Section 313 Toxic Chemicals: <u>Chemical Name</u> <u>CAS-</u> <u>ZINC COMPOUNDS</u> <u>68187-</u> <u>68187-</u> <u>68187-</u> <u>68187-</u> Canadian Regulations: <u>CAS-</u> <u>68187-</u> Canadian Regulations: <u>CAS-</u> <u>68187-</u> National Pollutant Release Inventory (NPRI) WHMIS Classification <u>1 205 </u> <u>1 </u> | | | | | |
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| Substances List (DSL) or are exe National Inventories: Australia AICS : Listed China IECS : Europe EINECS : Japan ENCS : | | | | | |
| Australia AICS:ListedChina IECS:ListedEurope EINECS:ListedJapan ENCS:Not determined | : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt. | | | | |
| China IECS:ListedEurope EINECS:ListedJapan ENCS:Not determined | | | | | |
| Europe EINECS:ListedJapan ENCS:Not determined | | | | | |
| Japan ENCS : Not determined | | | | | |
| | | | | | |
| Korea KECI : Listed | | | | | |
| | | | | | |
| Philippines PICCS : Listed | | | | | |
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16. OTHER INFORMATION

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 when used in combination with any other materials and/or in any particular process or processing conditions.