

COSMOS PLASTICS & CHEMICALS

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Microcrystalline Wax MSDS

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Current Issue Date: 1/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: OK 10223

OTHER/GENERIC NAMES: Microcrystalline Wax

PRODUCT USE: Multiple uses.

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS #	WEIGHT %
Microcrystalline wax , clay-treated	64742-42-3	100

Trace impurities and additional material names not listed above may also appear in the Regulatory Information section (#15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: The product is a white to black waxy solid in prill , pellet , or slab form. Exposure to fumes from melting operations may cause irritation . Contact with molten material

will cause thermal burns. No other significant immediate health , physical or environmental hazards are associated with these materials.

POTENTIAL HEALTH HAZARDS:

SKIN: Prolonged or repeated exposure may cause irritation. Contact with molten material will cause thermal burns .

EYES: Contact with powder may cause mechanical irritation . Exposure to fumes may cause irritation.

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INHALATION: Powder or fumes may cause irritation.

INGESTION: Not expected to occur .

DELAYED EFFECTS: None known.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

Ingredient Name NTP Status IARC Status OSHA List

* No ingredients listed in this section *

4. FIRST AID MEASURES

SKIN: Wash thoroughly with water and soap ; if irritation develops , contact a physician . In case of contact with molten material , submerge injured area in cold water . Do not attempt to remove material adhering to the skin .Get immediate medical attention .

EYE: Flush eyes with large amounts of water . Get medical attention if irritation occurs.

INHALATION: For inhalation of powder or vapors, remove to fresh air. If breathing is difficult , get medical attention .

INGESTION: Not expected to occur.

ADVICE TO PHYSICIAN: No specific advice. Treat according to symptoms present. Burns from molten material can be treated as normal thermal burns .

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: > 500°F (> 260°C)

FLASH POINT METHOD: Open cup.

AUTOIGNITION TEMPERATURE: Not known.

UPPER FLAME LIMIT (Volume % in air): Not applicable.

LOWER FLAME LIMIT (Volume % in air): Not applicable.

FLAME PROPAGATION RATE (Solids): Unknown.

OSHA FLAMMABILITY CLASS: Not applicable.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical or fine water spray. Avoid water stream on molten burning material as it may scatter and spread the fire.

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UNUSUAL FIRE AND EXPLOSION HAZARDS:

Melts in proximity to fires causing slippery floors and stairs .Material does not ignite readily , but will burn . Fire may produce dense smoke and irritating or poisonous gases . Run-off from fire control may cause pollution .

SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear self-contained breathing apparatus approved by NIOSH and protective clothing . Watch footing on floors and stairs because of possible spreading of molten material. Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASES: (Always wear recommended personal protective equipment.)

Sweep up spilled material , place it in container and dispose as is described in Section 13 .

Spills and releases may have to be reported to Federal and/or local authorities. See the Regulatory Information section (#15) regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING:(Always wear recommended personal protective equipment.)

Avoid spillage which can cause slippery conditions. Use good personal hygiene and housekeeping. Avoid breathing fumes

from heating operations.

STORAGE RECOMMENDATIONS:

Avoid excessive heat. Do not store near strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use adequate ventilation when handling molten material. For storage and ordinary handling , general ventilation is satisfactory.

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION:

Chemical-resistant gloves for prolonged or repeated exposure . Insulated gloves with long sleeves for handling molten material.

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EYE PROTECTION:

Chemical goggles around molten material .

RESPIRATORY PROTECTION:

Use a NIOSH approved vapor respirator around molten material if ventilation is not adequate .

ADDITIONAL RECOMMENDATIONS:

Not generally required .

EXPOSURE GUIDELINES: (Guidelines exist for the following ingredients)

Ingredient Name ACGIH TLV OSHA PEL Other Limit

* No ingredients listed in this section *

* = Limit established by Honeywell International

** = Workplace Environmental Exposure Level (AIHA)

*** = Biological Exposure Index

Other exposure limits for the decomposition products normally associated with product use are as follows: None .

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to brown slabs.

PHYSICAL STATE: Solid.

ODOR: Characteristic waxy odor.

SPECIFIC GRAVITY: (Water = 1.0) 0.83-0.87

SOLUBILITY IN WATER: (Weight %) Negligible

pH: Not applicable.

BOILING POINT: Not applicable.

MELTING POINT: 65-90 °C (150-195°F)

VAPOR PRESSURE: Negligible.

VAPOR DENSITY: (Air = 1.0) Not applicable.

EVAPORATION RATE: Not applicable. Compared to: Not applicable.

% VOLATILES: Not applicable.

FLASH POINT: > 500°F (> 260°C)

(Flash point method and additional flammability data are found in Section 5.)

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10. STABILITY AND REACTIVITY

NORMALLY STABLE? (Conditions to Avoid)

Stable at normal conditions.

INCOMPATIBILITIES:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Depending on conditions of fire, CO, CO₂, and other hazardous gases may be generated.

HAZARDOUS POLYMERIZATION?

Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Not determined.

DELAYED (SUBCHRONIC & CHRONIC) EFFECTS:

Not determined.

OTHER DATA:

No other data developed.

12. ECOLOGICAL INFORMATION

No data have been developed on this subject. This product is not soluble in water , and is not expected to cause an adverse environmental effect.

13. DISPOSAL CONSIDERATIONS

RCRA:

Is the unused product a RCRA hazardous waste if discarded? No.

If yes, the RCRA ID number is:

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OTHER DISPOSAL CONSIDERATIONS: Discard as non-hazardous organic solid waste when solidified .

The information offered here is for the product as shipped. Use and/or alteration to the product such as mixing with other materials

may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT PROPER SHIPPING NAME: Not regulated

US DOT HAZARD CLASS: Not applicable

For additional information on shipping regulations affecting this material, contact the information number found on the first page.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

TSCA INVENTORY STATUS: Product is listed on the TSCA Chemical Inventory .

OTHER TSCA ISSUES: None.

SARA TITLE III/CERCLA:

RQs & TPQs

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

SARA/CERCLA SARA EHS

Ingredient RQ (lbs) TPQ (lbs)

* No ingredients listed in this section *

Spills/releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National

Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: None.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals". CAS #'s and wt. % are found in section #2.

Ingredient Comment

* No ingredients listed in this section *

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STATE RIGHT TO KNOW:

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes:

Ingredient Wt.% Comment

* No ingredients listed in this section *

ADDITIONAL REGULATORY INFORMATION:

None.

WHMIS CLASSIFICATION (CANADA):

Not subject to WHMIS regulations.

FOREIGN INVENTORY STATUS:

Canadian DSL (Domestic Substances List)

EINECS (European Inventory of Existing Commercial Chemical Substances)

Australian Inventory

Korean Inventory

Philippine Inventory (PICCS)

Chinese Inventory

16. OTHER INFORMATION

CURRENT ISSUE DATE: 1/01

PREVIOUS ISSUE DATE: --

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

OTHER INFORMATION: None