



Rev'd 10-26-00

MATERIAL SAFETY DATA SHEET

MOSAIC Cement Clnt

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-3174
-8174

BAYER CORPORATION
PRODUCT SAFETY & REGULATORY AFFAIRS
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TRANSPORTATION EMERGENCY
CALL CHEMTREC: 800-424-9300
DISTRICT OF COLUMBIA: 202-483-7616

NON-TRANSPORTATION
BAYER EMERGENCY PHONE...: (412) 923-1800
BAYER INFORMATION PHONE.: (800) 662-2927

1. CHEMICAL PRODUCT IDENTIFICATION: [Terra Cotta, Charcoal, Rose]

PRODUCT NAME.....: Bayferrox 330 Pigment
PRODUCT CODE.....: AM30
CHEMICAL FAMILY.....: Inorganic Metal Oxide
COLOR INDEX NAME....: Pigment Black 11 → includes all colors except Green & Blue
COLOR INDEX NUMBER..: 77499
CHEMICAL NAME.....: Iron Oxide
SYNONYMS.....: C.I. Pigment Black 11 with CAS# 12227-89-3
FORMULA.....: Fe3O4

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME /CAS NUMBER EXPOSURE LIMITS CONCENTRATION (%)

***** HAZARDOUS INGREDIENTS *****

Silicon Dioxide (Amorphous)
7631-86-9 OSHA : 80.00 mg/m3 *TWA Proprietary
ACGIH: 10.00 mg/m3 TWA

* Divide 80 mg/m3 by the %SiO2 determined from air sample analysis to obtain the PEL.

3. HAZARDS IDENTIFICATION:

* EMERGENCY OVERVIEW *
* *
* CAUTION! Color: Black; Form: Solid; Powder; Odor: *
* Odorless; May cause mechanical irritation to the eyes and *
* respiratory tract; Irritating gases/fumes may be given off *

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V-1268

3. HAZARDS IDENTIFICATION (Continued)

* during burning or thermal decomposition. *

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Skin Contact; Eye Contact; Inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE EFFECTS OF EXPOSURE.....: On the basis of Animal Toxicity Data (see Section 11), we would expect this product to be non-irritating to the eyes and skin and essentially non-toxic by ingestion. However, exposure to airborne dust may cause unpleasant deposits and mechanical irritation to the eyes and respiratory tract. Rigorous skin cleaning necessary for removal of dust may cause irritation.

CHRONIC EFFECTS OF EXPOSURE...: Prolonged inhalation of amorphous silica may produce x-ray changes in the lungs without disability.

CARCINOGENICITY

NTP.....: Not listed
IARC.....: Not listed
OSHA.....: Not regulated

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Persons with preexisting eye or skin conditions or impaired pulmonary function may be more susceptible to the effects of this product.

EXPOSURE LIMITS.....: Although no exposure limit has been established for this product, the OSHA-PEL for particulates (not otherwise regulated) of 15 mg/m3-total particulate, 5 mg/m3-respirable particulate is recommended. In addition, the ACGIH-TLV for Particulates Not Otherwise Classified (PNOC) of 10 mg/m3 - inhalable particulate, 3 mg/m3 - respirable particulate is recommended.

4. FIRST AID MEASURES:

FIRST AID FOR EYES.....: Flush eyes with plenty of water, lifting lids periodically for at least 15 minutes. Consult a physician if irritation persists.

FIRST AID FOR SKIN.....: Wash with soap and water.

FIRST AID FOR INHALATION: Remove from dusty area to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

FIRST AID FOR INGESTION.: Immediately contact a physician.

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5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Not applicable.
EXTINGUISHING MEDIA.....: Material is not combustible. Use
extinguishing media suitable for other
combustible materials in the area.
SPECIAL FIRE FIGHTING PROCEDURES: None

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES.....: Vacuum or scoop material into an
appropriately marked container for reclamation or disposal. Avoid
excessive generation of dust. If dust is generated, use appropriate
respiratory protection.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE(MIN/MAX): Ambient/Ambient
SHELF LIFE.....: Unlimited
SPECIAL SENSITIVITY.....: Temperatures greater than 176 F (80 C). Exposure
to excessive heat may cause this product to become unstable (slowly
auto-oxidizes) which generates additional heat. Under certain conditions
this heat may be sufficient to cause combustible materials to ignite. Do
not store near sources of heat (furnaces, kilns, boilers, etc.).
HANDLING/STORAGE PRECAUTIONS: Store dry at ambient temperature away from food
and beverages. Avoid breathing dust. Avoid contact with eyes and skin.
Wash thoroughly after handling. Do not store near strong oxidizers, sources
of heat, or near flammable or combustible materials.

8. PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS.....: Safety glasses are recommended.
SKIN PROTECTION REQUIREMENTS.....: Rubber, cloth, or plastic gloves are
recommended to reduce skin contact where appropriate for job conditions.
VENTILATION REQUIREMENTS.....: Use local exhaust ventilation to maintain
air levels below the recommended exposure limit if dusting is a problem.
RESPIRATOR REQUIREMENTS.....: Ambient concentrations in the work area
should be monitored and if the recommended exposure limit is exceeded, a
NIOSH approved dust respirator should be worn.
ADDITIONAL PROTECTIVE MEASURES.....: Eye wash stations and washing facilities

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8. PERSONAL PROTECTION (Continued)

should be available. Employees should wash their hands and face before eating, drinking or using tobacco products.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM.....: Solid; Powder
COLOR.....: Black
ODOR.....: Odorless
pH: 4 to 8 @ 50 g/l water in aqueous suspension; DIN
ISO 787/9
BOILING POINT.....: Not applicable.
MELTING/FREEZING POINT....: Greater than 1832 F (1000 C)
VISCOSITY.....: Not applicable.
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: Approx. 4.6 @ 68 F (20 C); DIN ISO 787/10
BULK DENSITY.....: 600-800 kg/m3 @ 68 F (20 C)
VAPOR PRESSURE: Not applicable.

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.
HAZARDOUS POLYMERIZATION...: Will not occur.
INCOMPATIBILITIES.....: None known.
INSTABILITY CONDITIONS.....: Excessive temperatures. At temperatures greater
than 176 F (80 C), product may become unstable and auto-oxidize into Fe2O3.
DECOMPOSITION TEMPERATURE...: Greater than 176 F (80 C)
DECOMPOSITION PRODUCTS.....: None known.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY

ORAL LD50.....: Greater than 5000 mg/kg (Rat). (1)
EYE EFFECTS.....: Non-irritating to rabbit eyes. (1)
SKIN EFFECTS.....: Non-irritating to rabbit skin. (1)

1 Toxicological tests performed on chemically identical products.

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 12. ECOLOGICAL INFORMATION:

AQUATIC TOXICITY.....: LCo: Greater than 1000 mg/l Golden orfe (*Leuciscus idus*). (1)

1 Toxicological tests performed on chemically identical products.

 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Material which cannot be recycled into your process should be landfilled in accordance with federal, state and local environmental control regulations.

 14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Inorganic Oxide
 FREIGHT CLASS BULK.....: Iron Oxide, NOI
 FREIGHT CLASS PACKAGE.....: Iron Oxide, NOI
 PRODUCT LABEL.....: General Purpose # 330

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

 15. REGULATORY INFORMATION:

OSHA STATUS.....: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS.....: On TSCA Inventory

CERCLA REPORTABLE QUANTITY...: None

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15. REGULATORY INFORMATION (Continued)

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES...: None.

SECTION 311/312

HAZARD CATEGORIES.....: Delayed Health Hazard

SECTION 313

TOXIC CHEMICALS.....: None

RCRA STATUS.....: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
C.I. Pigment Black 11 (Iron Oxide) - may also be described by CAS# 12227-89-3 1317-61-9	Proprietary	PA3, NJ4
Silicon Dioxide (Amorphous) 7631-86-9	Proprietary	PA1, MA, NJ1
Arsenic 7440-38-2	Max. 50 ppm*	CA3, MA
Nickel 7440-02-0	Max. 300 ppm*	CA1, MA
Lead 7439-92-1	Max. 10 ppm*	CA3, MA

CA1 = Warning! This chemical is known to the State of California to cause cancer.

CA3 = Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

MA = Massachusetts Hazardous Substance List

NJ1 = New Jersey Hazardous Substance List

NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%

PA1 = Pennsylvania Hazardous Substance List

PA3 = Pennsylvania Non-hazardous present at 3% or greater.

* Please note that these were random sample analyses and content may vary from batch.

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16. OTHER INFORMATION:

HMIS RATINGS: Health Flammability Reactivity
 1 0 1
 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Bayer's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by Bayer as a customer service.

REASON FOR ISSUE.....: Revise MSDS
PREPARED BY.....: Ann M. Colo
APPROVED BY.....: J. M. Mostowy
APPROVAL DATE.....: 03/06/1998
SUPERSEDES DATE.....: 07/21/1992
MSDS NUMBER.....: 08492

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