

===== Product Identification =====

Product ID:CS 3204

MSDS Date:05/02/1989

FSC:8030

NIIN:00-753-5004

MSDS Number: BJWBB

=== Responsible Party ===

Company Name:FLAMEMASTER CORP.

Address:11120 SHERMAN WAY

City:SUN VALLEY

State:CA

ZIP:91352

Info Phone Num:(818) 982-1650

Emergency Phone Num:(818) 982-1650

CAGE:13422

=== Contractor Identification ===

Company Name:FLAMEMASTER CORPORATION

Address:11120 SHERMAN WAY

Box:

City:SUN VALLEY

State:CA

ZIP:91352-4949

Country:US

Phone:818-982-1650

CAGE:13422

===== Composition/Information on Ingredients =====

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Fraction by Wt: 65%

OSHA PEL:5 MG/CUM

ACGIH TLV:5 MG/CUM (MN)

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN/EYE: I

IRRITATION. INHALATION:

IMPAIRMENT OF CENTRAL NERVOUS SYSTEM, SLUGGISHNESS, SLEEPLESSNESS, &/OR WEAKNESS IN THE LEGS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SKIN/EYE: IRRITATION. INHALATION: IMPAIRMENT OF CENTRAL NERVOUS SYSTEM, SLUGGISHNESS, SLEEPLESSNESS, &/OR WEAKNESS IN THE LEGS.

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First Aid Measures
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First Aid:EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. SKIN: WASH THOROUGHLY W/SOAP & WATER. INHALATION: OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE

Extinguishing Media:DRY CHEMICAL, CO2, FOAM, & WATER.

Fire Fighting Procedures:IN CONFINED AREAS WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:EXPLOSION HAZARD IF HEATED W/OXIDIZABLE MATERIALS.

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Accidental Release Measures
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Spill Release Procedures:SCOOP UP. TRANSFER TO SAFETY CONTAINER. WASH SURFACE W/SOAP & WATER.

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Handling and Storage
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Handling and Storage Precautions:STORE IN A COOL DRY AREA. TRAIN PERSONNEL IN SAFE HANDLING OF THIS PRODUCT. EXPLOSION HAZARD IF HEATED W/OXIDIZABLE MATERIALS.

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Exposure Controls/Personal Protection
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Respiratory Protection:NONE NEEDED

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES

Other Protective Equipment:APPROPRIATE EQUIPMENT

Work Hygiene

nic Practices:WASH HANDS BEFORE EATING OR SMOKING AFTER
HANDLING PRODUCT. TRAIN PERSONNEL IN SAFE HANDLING OF THIS PRODUCT.
Supplemental Safety and Health
KEY1:N1. THE EXPOSURE LIMITS ARE BASED ON DUST PARTICLES. IN THIS
PRODUCT THE MANGANESE DIOXIDE PARTICLES ARE WETTED OUT THEREFORE
AIRBORNE PARTICLES WILL NOT RESULT FROM NORMAL USE.

===== Physical/Chemical Properties =====

HCC:N1
Spec Gravity:2
Evaporation Rate & Reference:(BU AC = 1): NIL
Solubility in Water:NEGLIGIBLE
Appearance and Odor:BLACK PASTE W/OILY ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
REDUCING AGENTS, COMBUSTIBLES, HYDROGEN DIOXIDE, POTASSIUM AZIDE, &
OXIDIZERS
Stability Condition to Avoid:HEAT
Hazardous Decomposition Products:CO₂, CO, NITRIC OXIDE, NITROGEN
DIOXIDE, & DUST.

===== Disposal Considerations =====

Waste Disposal Methods:REACT W/BASE COMPONENT
& DISPOSE AS SOLID WASTE
ACCORDING TO LOCAL, STATE, & FEDERAL REGULATIONS.

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