Revised: 09/05/00 FERRIC OXIDE, POWDER Replaces: None Printed: 04/08/06 CAROLINA BIOLOGICAL

PRODUCT IDENTIFICATION

PRODUCT NAME: FERRIC OXIDE

COMMON SYNONYMS: IRON (III) OXIDE; RED IRON OXIDE; C.I. 77491; IRON

SESOUIOXIDE

CHEMICAL FAMILY: IRON COMPOUNDS

FORMULA: FE203 FORMULA WT.: 159.69 1309-37-1 CAS NO.: NIOSH/RTECS NO.: NO7400000

PRODUCT USE: LABORATORY REAGENT PRODUCT CODES: 2024

CHEMTREC # (800) 424-9300 NATIONAL RESPONSE CENTER # (800) 424-8802 J.T.BAKER INC. 222 RED SCHOOL LANE PHILLIPSBURG, NJ 08865 24-HOUR

EMERGENCY TELEPHONE -- (201) 859-2151 EFFECTIVE: 01/04/94 ISSUED: 04/08/95

REVISION #03

PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* SYSTEM

HEALTH 1 SLIGHT FLAMMABILITY - 0 NONE REACTIVITY - 1 SLIGHT - 1 SLIGHT CONTACT

LABORATORY PROTECTIVE EQUIPMENT GOGGLES; LAB COAT

U.S. PRECAUTIONARY LABELING

CAUTION

MAY CAUSE IRRITATION. MAY BE HARMFUL IF INHALED.

DURING USE AVOID CONTACT WITH EYES, SKIN, CLOTHING. WASH THOROUGHLY AFTER

HANDLING. WHEN NOT IN USE KEEP IN TIGHTLY CLOSED CONTAINER.

INTERNATIONAL LABELING

AVOID CONTACT WITH EYES. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. KEEP CONTAINER TIGHTLY CLOSED.

SAF-T-DATA\* STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

COMPONENTS

COMPONENT CAS NO. WEIGHT % OSHA/PEL

ACGIH/TLV

1309-37-1 98-100 10 MG/M 5 FERRIC OXIDE

MG/M

PHYSICAL DATA

BOILING POINT: N/A VAPOR PRESSURE (MMHG): N/A MELTING POINT: 1565 C (2849 F) VAPOR DENSITY (AIR=1): N/A

(AT 760 MM HG)

SPECIFIC GRAVITY: 5.24 EVAPORATION RATE: N/A

(H2O=1)

SOLUBILITY(H20): NEGLIGIBLE (<0.1%) % VOLATILES BY VOLUME: 0

(21 C)

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PH: N/A

ODOR THRESHOLD (P.P.M.): N/A PHYSICAL STATE: SOLID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

APPEARANCE & ODOR: RED TO BROWN POWDER. ODORLESS.

### FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP): N/A AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A LOWER - N/A

FIRE EXTINQUISHING MEDIA

USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-

CONTAINED

BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE

PRESSURE

MODE.

UNUSUAL FIRE & EXPLOSION HAZARDS

NONE IDENTIFIED.

TOXIC GASES PRODUCED

IRON FUMES

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT

NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE

NONE IDENTIFIED.

# **HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE (TLV/TWA): 5 MG/M

SHORT-TERM EXPOSURE LIMIT (STEL): NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL): 10 MG/M

TOXICITY OF COMPONENTS

INTRAPERITONEAL RAT LD50 FOR FERRIC OXIDE

5500

MG/KG

INTRAPERITONEAL MOUSE LD50 FOR FERRIC OXIDE

5400

MG/KG

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

CARCINOGENICITY

NONE IDENTIFIED.

REPRODUCTIVE EFFECTS

NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION: IRRITATION OF UPPER RESPIRATORY TRACT
SKIN CONTACT: DROLONGED CONTACT MAY CAUSE IRRITATION

SKIN CONTACT: PROLONGED CONTACT MAY CAUSE IRRITATION
EYE CONTACT: IRRITATION
SKIN ABSORPTION: NONE IDENTIFIED
INGESTION: NONE IDENTIFIED

CHRONIC EFFECTS: LUNG DAMAGE

TARGET ORGANS

RESPIRATORY SYSTEM, LUNGS

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE IDENTIFIED

PRIMARY ROUTES OF ENTRY

INHALATION, SKIN CONTACT, EYE CONTACT

Page 2 of 4

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EMERGENCY AND FIRST AID PROCEDURES

INGESTION: IF SWALLOWED AND THE PERSON IS CONSCIOUS, IMMEDIATELY

GIVE

LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

INHALATION: IF A PERSON BREATHES IN LARGE AMOUNTS, MOVE THE

EXPOSED

PERSON TO FRESH AIR.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH PLENTY

OF

SOAP AND WATER FOR AT LEAST 15 MINUTES.

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY

OF

WATER FOR AT LEAST 15 MINUTES.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: YES CHRONIC: YES FLAMMABILITY: NO PRESSURE: NO REACTIVITY: NO

EXTREMELY HAZARDOUS SUBSTANCE: NO CERCLA HAZARDOUS SUBSTANCE: NO SARA 313 TOXIC CHEMICALS: NO TSCA INVENTORY: YES

REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT

OCCUR

CONDITIONS TO AVOID: NONE DOCUMENTED

INCOMPATIBLES: HYDRAZINE, CALCIUM HYPOCHLORITE, PERFORMIC ACID

DECOMPOSITION PRODUCTS: NONE IDENTIFIED

**SPILL & DISPOSAL PROCEDURES** 

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE

WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEEP UP AND REMOVE.

DISPOSAL PROCEDURE

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL

ENVIRONMENTAL REGULATIONS.

INDUSTRIAL PROTECTIVE EQUIPMENT

VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET

TLV

REQUIREMENTS.

RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION

CONDITIONS

EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A

SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES, RUBBER GLOVES ARE RECOMMENDED.

STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA\* STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

STORAGE REQUIREMENTS

KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL

STORAGE

AREA.

TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)

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INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)

MARINE POLLUTANTS: NO

AIR (I.C.A.O.)

PROPER SHIPPING NAME: CHEMICALS, N.O.S. (NON-REGULATED)

U.S. CUSTOMS HARMONIZATION NUMBER: 28211000500

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