MATERIAL SAFETY DATA SHEET

PRODUCT/MATERIAL
RED IRON OXIDE

MANUFACTURER/DISTRIBUTOR
WHITTAKER, CLARK & DANIELS, INC

ADDRESS
1000 COOLIDGE STREET
SOUTH PLAINFIELD, NJ 07080

EMERGENCY TELEPHONE NO.
(908) 561-6100

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME
RED IRON OXIDE

SYNONYM
IRON OXIDE, FERRIC OXIDE

CHEMICAL FAMILY
METAL OXIDE

FORMULA
Fe₂O₃ and Fe₃O₄
C.I. PIGMENT RED, 101, C.I. NO. 77491

CAS NUMBER
1309-37-1

EINECS NUMBER
2151682

HMIS
HEALTH 0
FLAMMABILITY 0
REACTIVITY 0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME
IRON OXIDE RED
IRON OXIDE BLACK

CAS NUMBER
1309-37-1
1317-61-9

PERCENT
>92
<8

EXPOSURE LIMITS
ACGIH TLV: 5 mg/M³ TWA (Iron Oxide Fume)
OSHA STEL: 10 ppm (Iron Oxide Fume as Fe)

ACGIH TLV: 5 mg/M³ TWA (Iron Oxide Fume)
OSHA STEL: 10 ppm (Iron Oxide Fume as Fe)

THERE ARE EXTREMELY SMALL, BUT DETECTABLE AMOUNTS OF SUBSTANCES REGULATED UNDER CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65).

ARSENIC
BERYLLIUM
CADMIUM
CHROMIUM (VI)
LEAD

LESS THAN 2 ppm
LESS THAN 2 ppm
LESS THAN 2 ppm
LESS THAN 0.1 ppm
LESS THAN 10 ppm

THESE LEVELS ARE "TYPICAL" QUANTITIES AND MAY CHANGE SLIGHTLY WITH DIFFERENT LOTS. THE TERM "LESS THAN" INDICATES THAT THE SUBSTANCE WAS DETECTED, BUT THE AMOUNT WAS LESS THAN THE QUANTIFIABLE LIMIT.

SECTION III - PHYSICAL DATA

BOILING POINT (F)
NOT APPLICABLE

VAPOR PRESSURE (mmHg)
NOT APPLICABLE

VAPOR DENSITY
NOT APPLICABLE

SOLUBILITY IN WATER
INSOLUBLE

SPECIFIC GRAVITY
4.8 - 5.2

PERCENT VOLATILE BY WEIGHT
0

EVAPORATION RATE
0

APPEARANCE AND ODOR
RED TO REDDISH BROWN POWDER NO ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Technical Services Department
1000 Coolidge Street • South Plainfield, New Jersey 07080-1000 • 1 (800) 733-0582 • FAX: 1 (800) 833-8139
FLASH POINT
EXTINGUISHING MEDIA
UNUSUAL FIRE OR EXPLOSION HAZARDS
SPECIAL FIRE FIGHTING PROCEDURES
SECTION V - HEALTH HAZARD DATA
CARCINOGENICITY
SUMMARY OF RISKS
PRIMARY ENTRY ROUTE(S)
ACUTE EFFECTS
CHRONIC EFFECT(S)

FIRST AID:
EYE CONTACT
SKIN CONTACT
INHALATION
INGESTION

SECTION VI - REACTIVITY DATA
INCOMPATIBILITY
HAZARDOUS DECOMPOSITION PRODUCTS

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED
WASTE DISPOSAL METHOD

SECTION VII - SPECIAL PROTECTION INFORMATION
EYE PROTECTION (USE MOST APPROPRIATE)
SKIN PROTECTION
RESPIRATORY PROTECTION

WORKPLACE CONSIDERATIONS

Technical Services Department • 1000 Cookidge Street • South Plainfield, New Jersey 07080-1000 • 1 (800) 732-0562 • FAX: 1 (800) 833-8139
VENTILATION

LOCAL EXHAUST VENTILATION TO COLLECTOR OR CONTAINMENT RECOMMENDED TO CONTROL DUST TO BELOW EXPOSURE LIMITS.

SAFETY STATIONS

AN EYE WASH STATION SHOULD BE AVAILABLE TO THE AREA OF USE.

SECTION IX - HANDLING AND STORAGE

HANDLING:
GOOD INDUSTRIAL HYGIENE PRACTICE REQUIRES THAT EMPLOYEE EXPOSURE BE MAINTAINED BELOW THE RECOMMENDED TLV. THIS IS PREFERABLY ACHIEVED THROUGH THE PROVISION OF ADEQUATE VENTILATION WHERE NECESSARY. WHERE DUST CANNOT BE CONTROLLED IN THIS WAY, PERSONAL RESPIRATORY PROTECTION SHOULD BE EMPLOYED.

STORAGE:
STORE IN A DRY AREA AT AMBIENT TEMPERATURE.

SECTION X - TOXICOLOGICAL INFORMATION

THERE ARE NO KNOWN DANGEROUS ACUTE OR CHRONIC EFFECTS ASSOCIATED WITH THE USE OF THIS MATERIAL. THE ACUTE ORAL TOXICITY (LD50) FOR Fe2O3 IS GREATER THAN 10 g./kg. (RAT).

SECTION XI - ECOLOGICAL INFORMATION

IRON OXIDE PIGMENTS ARE INERT, INSOLUBLE, AND BIOLOGICALLY INACTIVE. THEY DO NOT PRESENT AN ENVIRONMENTAL HAZARD.

SECTION XII - TRANSPORTATION

IRON OXIDE PIGMENTS ARE CONSIDERED TO BE NON-HAZARDOUS ACCORDING TO U.S. DEPARTMENT OF TRANSPORTATION AND INTERNATIONAL SHIPPING REGULATIONS.

SECTION XIII - REGULATORY


ISSUED: 10/93
SUPERCEDES: 7/93