

BASF CORPORATION -- FERRIC CHLORIDE ANHYDROUS 99% NCI 007351 -- 6810-00-682-6677
===== Product Identification =====

Product ID:FERRIC CHLORIDE ANHYDROUS 99% NCI 007351

MSDS Date:06/02/1999

FSC:6810

NIIN:00-682-6677

MSDS Number: CJSMT

=== Responsible Party ===

Company Name:BASF CORPORATION

Address:3000 CONTINENTAL DRIVE NORTH

City:MOUNT OLIVE

State:NJ

ZIP:07828

Country:US

Info Phone Num:973-426-46

71

Emergency Phone Num:800-832-HELP (BASF HOTLINE)

Resp. Party Other MSDS Num.:PROD ID# NCI 007351

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO384

=== Contractor Identification ===

Company Name:BASF CORPORATION

Address:3000 CONTINENTAL DRIVE NORTH

Box:City:MOUNT OLIVE

State:NJ

ZIP:07828

Country:US

Phone:973-426-4671

CAGE:TO384

Company Name:SIGMA TECH ENTERPRISES INC

Address:90 GLEN WAY SUITE 16

Box:City:SAN CARLOS

State:CA

ZIP:94070

Country:US

Phone:415-591-2510

Contract Num:SP0450-00-M-D098

CAGE:04

KF9
Company Name:WAITE R M CO
Address:2100 EMBARCADERO SUITE 203
Box:City:OAKLAND
State:CA
ZIP:94606
Country:US
Phone:510-535-1266
Contract Num:SP0450-00-M-SG36
CAGE:0V485

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Composition/Information on Ingredients
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Ingred Name:FERRIC CHLORIDE ANHYDROUS
CAS:7705-08-0
RTECS #:LJ9100000
> Wt:99.
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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Hazards Identification
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LD50 LC50 Mixture:ORAL RAT LD50 = 1160 MG/KG
Routes of Entry:
Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:ACUTE OVEREXPOSRE EFFECTS: THIS
MATERIAL IS CORROSIVE TO THE BODY TISSUES. SKIN CONTACT WITH THE
SOLID MAY RESULT IN DERMATITIS AND DEEP BURNS. EYE CONTACT MAY
RESULT IN BURNS AND PERMANENT INJURY. CHRONIC OVEREXPOSURE
EFFECTS: THERE ARE NO KNOWN CHRONIC EFFECTS ASSOCIATED WITH THIS
MATERIAL.
Effects of Overexposure:IRRITATION, BURNS, PAIN, TEARING.
Medical Cond Aggravated by Exposure:NO DATA AVAILABLE
WHICH ADDRESSES
MEDICAL CONDITIONS THAT ARE GENERALLY RECOGNIZED AS BEING
AGGRAVATED BY EXPOSURE TO PRODUCT.

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First Aid Measures
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First Aid:SKIN: WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE AND
LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. GET IMMEDIATE MEDICAL
ATTENTION. EYES: IMMEDIATELY RINSE EYES WITH RUNNING WATER FOR 15
MINUTES. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: IF SWALLOWED,
DILUTE WITH WATER. DO NOT IN

DUCE VOMITING. NEVER GIVE FLUIDS OR
INDUCE VOMITING IF THE VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS.
GET IMMEDIA TE MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR.
AID IN BREATHING. IF NECESSARY, AND GET IMMEDIATE MEDICAL
ATTENTION.NOTES TO PHYSICIAN: NONE KNOWN. SPECIAL PRECAUTIONS:
NONE.

===== Fire Fighting Measures =====

Extinguishing Media:USE CO2 OR DRY CHEMICAL EXTINGUISHING MEDIA.

Fire Fighting Procedures:FIREFIGHTERS SHOULD BE
EQUIPPED WITH

SELF-CONTAINED BREATHING APPARATUS AND TURN OUT GEAR.

Unusual Fire/Explosion Hazard:EXPLODES WHEN HEATED TO 538 C OR UPON
CONTACT WITH CYANIDES.

===== Accidental Release Measures =====

Spill Release Procedures:SPILLS SHOULD BE CONTAINED, SOLIDIFIED AND
PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN RCRA LICENSED
FACILITY. MATL IS RCRA HAZARDOUS DUE TO ITS PROPERTIES. WASTE
DISPOSAL: INCINERATE OR BURY IN RCR A LICENSED FACILITY. DO

NOT

DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT PROPER AUTHORITY.

===== Handling and Storage =====

Handling and Storage Precautions:GENERAL: PRODUCT SHELF LIFE IS ABOUT6
MONTHS. AVOID MOISTURE.

Other Precautions:CONTAINER DISPOSAL: EMPTY CONTAINERS WITH LESS THAN
1 INCH OF RESIDUE MAY BE LANDFILLED AT A LICENSED FACILITY.

RECOMMEND CRUSHING OR OTHER MEANS TO PREVENT UNAUTHORIZED REUSE.

OTHER CONTAINERS MUST BE DISPOSED OF IN A RCRA
LICENSED FACILITY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF DUSTS ARE GENERATED, WEAR AN APPROVED DUST
RESPIRATOR.

Ventilation:USE LOCAL EXHAUST TO CONTROL DUSTS.

Protective Gloves:AS NECESSARY TO PREVENT CONTACT.

Eye Protection:CHEMICAL GOGGLES.

Other Protective Equipment:EYEWASH FOUNTAINS AND SAFETY SHOWERS MUST BE
EASILY ACCESSIBLE. GLOVES, COVERALLS, APRON, AND BOOTS AS NECESSARY
TO PREVENT CONTACT.

Work Hygienic Practices:W

ASH THOROUGHLY BEFORE EATING/DRINKING/SMOKING
& AT END OF WORKDAY.

Supplemental Safety and Health

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

HCC:C1

Vapor Pres:1 MILLIBARS X @ 20C

pH:1 SU

Solubility in Water:920 G/L @ 20C

Appearance and Odor:DARK GREY CRYSTALLINE POWDER SLIGHT PUNGENT ODOR.

Corrosion Rate:CORROSIVE

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

Stability Indicator/Materials to Avoid:YES

AVOID MOISTURE. DECOMPOSES AT TEMPERATU

RES >200C.

Stability Condition to Avoid:MOISTURE.

Hazardous Decomposition Products:CHLORINE ON THERMAL DECOMPOSITION.

PRODUCT SHELF LIFE IS ABOUT 6 MONTHS.

Conditions to Avoid Polymerization:DOES NOT OCCUR

===== Toxicological Information =====

Toxicological Information:TOXICOLOGY TEST DATA: RABBIT, EYE

IRRITATION-IRRITATING. RABBIT, PRIMARY SKIN IRRITATION-IRRITATING.

ORAL RAT LD50= 1160 MG/KG MODERATELY TOXIC.

===== Ecological Informa

tion =====

Ecological:ENVIRONMENTAL TOXICITY TEST DATA: FISH TOXICITY - 0.9 MG/L

TEST RATING NOT FOUND.

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

Waste Disposal Methods:INCINERATE OR BURY IN A RCRA LICENSED

FACILITY. DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT

PROPER AUTHORITY.

===== MSDS Transport Information =====

Transport Information:BILL OF LADING DESCRIPTION: FERRIC CHLORIDE

ANHYDRO

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===== Regulatory Information =====
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SARA Title III Information: CERCLA : YES. REPORTABLE QUANTITY: 1000 LBS.
RCRA HAZ WASTE # D002 (CORROSIVITY). HAZARD RATING: HEALTH =2,
REACTIVITY= 1, FIRE= 0.

Federal Regulatory Information: LISTED ON TSCA INVENTORY: YES. THE RCRA
HAZARDOUS WASTE NUMBER D002 REFERS TO THIS MATERIAL'S RCRA
HAZARDOUS WASTE CHARACTERISTIC OF CORROSIVITY. RCRA HAZ. WASTE NO.:
D002.

State Regulatory Information: LISTED IN THE STATE OF NJ, PA, MA.

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===== Other Information =====
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