

AGFA CORPORATION -- G-335C INDUSTRIAL X-RAY FIXER PART B -- 6750-01-461-5240

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Product Identification  
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Product ID:G-335C INDUSTRIAL X-RAY FIXER PART B

MSDS Date:03/26/1998

FSC:6750

NIIN:01-461-5240

Status Code:A

Kit Part:Y

MSDS Number: CLPHC

=== Responsible Party ===

Company Name:AGFA CORPORATION

Address:100 CHALLENGER RD

City:RIDGEFIELD PARK

State:NJ

ZIP:07660

Country:US

Info Phone Num:

201-440-2500

Emergency Phone Num:303-623-5716 HEALTH

Resp. Party Other MSDS Num.: 79B

Preparer's Name:R. RUPPEL-KERR

Chemtrec Ind/Phone:(800)424-9300

CAGE:1MVW0

=== Contractor Identification ===

Company Name:AGFA CORPORATION

Address:100 CHALLENGER RD

Box:City:RIDGEFIELD PARK

State:NJ

ZIP:07660

Country:US

Phone:201-440-2500

CAGE:1MVW0

Company Name:AGFA DIVISION, BAYER CORPORATION

Address:100 CHALLENGER ROAD

Box:City:RIDGEFIELD PARK

State:NJ

ZIP:07660

Country:US

Phone:201-440-2500

CAGE:0P7P7

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Composition/Information on Ingredients  
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Ingred Name:ALUMINUM SULFATE

CAS:10043-01-3

RTECS #:BD1700000

Minumum % Wt:5.

Maxumum % Wt:10.

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ACETIC ACID

CAS:64-19-7

RTECS #:AF1225000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:25 MG/M3;10 PPM

ACGIH TLV:25 MG/M3;10 PPM

ACGIH STEL:37 MG/M3;15 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

ACGIH STEL:3 MG/M3

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:OXALIC ACID

CAS:144-62-7

RTECS #:RO2450000

Minumum % Wt:1.

Maxumum % Wt:5.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

ACGIH STEL:2 MG/M3

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Hazards Identification  
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LD50 LC50 Mixture:ORAL LD50 IS 3310 MG/KG (RAT)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic

:ACUTE: INHALATION-OVEREXPOSURE CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT. SKIN-DIRECT CONTACT CAN CAUSE SKIN IRRITATION, POSSIBLY SEVERE. EYE-OVEREXPOSURE CAN CAUSE SEVERE IRRITATION. INGESTION-SW ALLOWING CONCENTRATED ACETIC ACID MAY CAUSE SEVERE INJURY. INGESTION OF ALUMINUM SULFATE MAY CAUSE IRRITATION OR BURN THE DIGESTIVE TRACT. IF INGESTED, SULFURIC ACID & OXALIC ACID ARE CORROSIVE TO THE TISSUES WITH WHICH THEY COME IN CONTACT. CHRONIC: INHALATION-KIDNEY D

AMAGE. SKIN-SKIN DESICATION & ULCERATION. EYE-LACRIMATION & CHRONIC CONJUNCTIVITIS. INGESTION-MAY CAUSE KIDNEY DAMAGE.

Explanation of Carcinogenicity:THE COMPONENTS OF THIS PRODUCT ARE NOT LISTED BY NTP, IARC OR REGULATED AS A CARCINOGEN BY OSHA.

Effects of Overexposure:INHALATION-COUGHING, RUNNY NOSE & SORE THROAT, IRRITATING TO THE MUCOUS MEMBRANES OF THE RESPIRATORY TRACT. CHOKING & INFLAMMATION OF THE RESPIRATORY TRACT. SKIN-BURNING, REDDENING, ITCHING & SWELLING . SE

VERE BURNS & BLISTERING OF THE SKIN. EYE-BURNING, STINGING, REDDENING, TEARING, SWELLING & POSSIBLE INJURY TO THE CORNEA DEPENDING ON THE CONCENTRATION OF THE ACID. PERMANENT EYE DAMAGE INCLUDING BLINDNESS MAY RESULT. INGESTION-MAY CAUSE BURNING PAIN IN THE MOUTH, THROAT, ESOPHAGUS & ABDOMEN.

Medical Cond Aggravated by Exposure:PERSONS WITH PREEXISTING EYE, SKIN, KIDNEY, OR RESPIRATORY TRACT DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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===== First Aid Measures =====

First Aid:EYES: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. SKIN: IN CASE OF CONTACT, REMOVE CONTAMINATED CLOTHING, IMMEDIATELY WASH SKIN WITH PLEN TY OF WATER. WASH CLOTHING BEFORE REUSE. CALL A PHYSICIAN IF IRRITATION PERSISTS. INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIV  
E OXYGEN. CALL A PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. DRINK 1 - 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION. TAKE THIS MSDS TO PHYSIC IAN.

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

Flash Point:NONCOMBUSTIBLE  
Extinguishing Media:MATERIAL IS NOT COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITABLE FOR OTHER COMBUSTIBLE MATERIALS IN THE AREA.  
Fire Fighting Procedures:EVACUATE PERSONNEL TO A SAFE ARE

A. KEEP

PERSONNEL REMOVED AND UPWIND OF FIRE. WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:WHEN HEATED TO DECOMPOSITION EMISSION OF TOXIC FUMES OF SO<sub>2</sub> IS POSSIBLE.

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

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. DIKE SPILL. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. SOAK UP WITH SAWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIAL. SPILL MAY BE NEUTRALIZED WITH POWDERED SODIUM CARBONATE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE BETWEEN 40F (4.4C) AND 80F ( 26C). PREFERRED STORAGE IS AT 68F (20C). KEEP FROM FREEZING. AVOID EYE AND SKIN CONTACT, AND STORE IN WELL-VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREA WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP OUT OF THE REACH OF CHILDREN.

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

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATOR PROTECTION IS NOT REQUIRED. IF RESPIRATORS ARE USED, INSTITUTE A PROGRAM IN ACCORDANCE WITH OSHA STANDARD 20 CFR 1010.134.

Ventilation:USE SUFFICIENT GENERAL ROOM VENTILATION AND/OR LOCAL EXHAUST TO MAINTAIN AIRBORNE LEVELS OF VAPORS BELOW APPLICABLE EXPOSURE LIMITS.

Protective Gloves:FOR SKIN PROTECTION USE CHEMICAL RESISTANT GLOVES AND APRONS.

Eye Protection:SPLASH PROTECTION REQUIRED FOR EYES, EYE GLASSES WITH SIDE SHIELDS OR GOGGLES.

Other Protective Equipment:FOR SKIN PROTECTION USE CHEMICAL RESISTANT APRONS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE MADE AVAILABLE. EDUCATE AND TRAIN EMPLOYEES IN THE SAFE USE AND HANDLING OF THIS PRODUCT.

Work Hygienic Practices

es:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

\*\*\*\*UNIT OF ISSUE CONTAINS 2 SETS OF G335C FIXER/ REPLENISHER, PART A/B  
2X5 QT; EACH SET CONTAINS (1) PART A (5 QUART BOTTLE), (1) PART B  
(1 QUART BOTTLE).\*\*\*\*

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

HCC:C1

Boiling Pt:=100.C, 212.F

B.P. Text:APPROX.

Spec Gravity:APPROX 1.15

pH:< 0.5

Solubility in Water:SOLUBLE

Appearance and Odor:CLEAR COLORLESS LIQUID; STRONG VINEGAR ODOR.

Percent Volatiles

by Volume:N/E

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

Stability Indicator/Materials to Avoid:YES

STRONG ALKALI, OXIDIZERS.

Stability Condition to Avoid:NONE KNOWN.

Hazardous Decomposition Products:CO, CO2, OXIDES OF SULFUR AND OTHER  
POTENTIALLY TOXIC FUMES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:ACUTE TOXICITY: ORAL LD50-3310 MG/KG (RAT).

DERMAL LD50-10

60 MG/KG (RABBIT) INHALATION LC50-5620 PPM/1 HR.

(MOUSE). EYE EFFECTS-CORROSIVE. SKIN EFFECTS-CORROSIVE. TOXICITY  
DATA FOR: ALUMINUM SULFATE. MUTAGENICITY-POSITIVE MUTAGENICITY  
STUDIES IN BACTERIAL AND MAMMALIAN CELL ASSAY SYSTEM.

===== Ecological Information =====

Ecological:NO ECOLOGICAL INFORMATION AVAILABLE.

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

Waste Disposal Methods:RECOVER NONUSABLE FREE LIQUID AND/OR  
CON

TAMINATED WATER, AND DISPOSE OF IN AN APPROVED AND PERMITTED TREATMENT SYSTEM. REMOVE NONUSABLE SOLID MATERIAL AND/OR CONTAMINATED SOIL, FOR DISPOSAL IN AN APPR OVED AND PERMITTED LANDFILL. DISCHARGE TO SEWER MAY REQUIRE APPROVAL OF PERMITTING AUTHORITY AND MAY REQUIRE PRETREATMENT.

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

Transport Information:TECHNICAL SHIPPING NAME: SULFURIC ACID, ACETIC ACID. PRODUCT LABEL: G-335C INDUSTRIAL X-RAY FIXER PA RT B. DOT

DOMESTIC SURFACE). PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S. HAZARD CLASS OR DIVIS ION: 8. UN/NA NUMBER: UN1760. PACKAGING GROUP: PGII. DOT PRODUCT RQ LBS: NONE. HAZARD LABEL: CORROSIVE. HAZARD PLACARD: CORROSIVE. LIMITED QUANTITY EXECPTION MAY APPLY TO THIS PRODUCT, FOR "INNER PACK AGINGS NOT OVER 1L FOR LIQUIDS & 1 KG FOR SOLIDS. EACH PACKAGE MUST CONFORM TO THE APCKAGING REQUIREMENTS OF SUBPART B OF PART 173 & NOT EXCEED 30 KG.

===== = Regulatory Information =====

SARA Title III Information:SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: SULFURIC ACID, (1-5%). SECTION 311/312 HAZARD CATEGORIES: IMMEDIATE HEALTH HAZARD; DELAYED HEALTH HAZARD. SECTION 313 TOXIC CHEMICALS: SULFURIC ACID (1-5%). RCRA STATUS: WHEN DISCARDED IN ITS PURCHASED FORM, THIS PRODUCT MEETS THE FRITERIA OF CORROSITIVITY, AND SHOULD BE MANAGED AS A HAZARDOUS WASTE (EPA HAZRDOUS WASTE NUMBER D002).

Federal Regulatory Info

rmation: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: ACETIC ACID-5,000 LBS; SULFURIC AC ID-1,000 LBS; ALUMINUM SULFATE-5,000 LBS.

State Regulatory Information:ALUMINUM SULFATE, 5-10%, PENNSLYVANIA HAZARDOUS SUBSTANCE LIST. PENNSYLVANIA ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST, MASSACHUSETTS HAZARDOUS LIST, NEW JERSEY HAZARDOUS SUBSTANCE LIST. WATER, 8

0-85%, P ENNSYLVANIA NON-HAZARDOUS PRESENT AT 3% OR GREATER, NEW JERSEY OTHER - INCLUDED IN 5 PREDOMINANT INGREDIENTS >1%. ACETIC ACID, 1-5%, PENNSYLVANIA NON-HAZARDOUS PRESENT AT 3% OR GREATER, NEW JERSEY O THER - INCLUDED IN 5 PREDOMINANT INGREDIENTS >1, MASSACHUSETTES HAZARDOUS SUBSTANCE LIST.

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

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