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International Specialists in the Environment

MEMORANDUM

DATE: November 13, 1986
TO: File
FROM: Richard Dagnall RD
SUBJECT: Ohio/F05-8611-108/OH0101
Garfield Hts/Allied Corp. National Works
OHD004221586

The above-named site is a 66-acre facility located in Garfield Hts. The facility currently produces aluminum sulfate. The residue from this operation is not hazardous (see attachment). No hazardous waste is produced, stored, or disposed of at the site.

The facility produced various acids from 1895 to 1976. No records were kept that cover the operations during this time period. Therefore, while it is possible the ground may have been contaminated by feedstock or product, no documentation exists.

The site was inspected by FIT on May 14, 1986. No samples were taken due to the low persistence of acids and maximum potential HRS score of less than 3.

Due to the lack of documentation of any spills and the fact that no CERCLA regulated hazardous waste was disposed of on-site, there is no waste type to score for toxicity and persistence. Therefore, a HRS cannot be generated.

44I:4X

US EPA RECORDS CENTER REGION 5
407726

recycled paper

ALLIED CORP.
CHEMICAL SECTOR

Alum Process Residue

IN-PLANT MATERIAL SAFETY DATA SHEET
FOR PLANT USE ONLY

A. GENERAL INFORMATION

PLANT IDENTIFICATION OF PRODUCT Alum Process Residue	☐ C.A.S. NO. ☐ PLANT CODE NO.
CHEMICAL NAME Clay and Bauxite, Residues	
FORMULA Unknown - chemistry usually discussed in terms of clays, alumina, Titanium, Dioxide, Bauxite, and non-crystalline Silica.	MOLECULAR WEIGHT
ADDRESS (No., STREET, CITY, STATE AND ZIP CODE) ALLIED CHEMICAL AN ALLIED COMPANY P.O. BOX 1139R MORRISTOWN, NJ 07960	

CONTACT	PHONE NUMBER	ISSUED DATE	REVISED DATE
Director, Product Safety	(201) 455-4157		October 1985

B. FIRST AID MEASURES

EMERGENCY PHONE NUMBER
(201) 455-2000

Eye Contact: Flush eyes with copious amounts of water to eliminate mechanical irritation.

C. HAZARDS INFORMATION

HEALTH

INHALATION

Nuisance Dust - No particular hazard due to toxicity.

INGESTION

SKIN

No reports of irritation due to skin contact.

EYES

May cause mechanical irritation due to inert dusts.

PERMISSIBLE CONCENTRATION: AIR (SEE SECTION J) — BIOLOGICAL

10 mg/m^3 as a nuisance dust.

UNUSUAL CHRONIC TOXICITY

None

C. HAZARDS (Cont.)

FIRE AND EXPLOSION

FLASH POINT °C	AUTO IGNITION TEMPERATURE °C	FLAMMABLE LIMITS IN AIR (% BY VOL.)
Non-Flammable ☐ OPEN CUP ☐ CLOSED CUP	N/A	LOWER - — UPPER - —

UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED

Non-Flammable

FIRE EXTINGUISHING AGENTS TO AVOID

NONE

SPECIAL FIRE FIGHTING PRECAUTIONS

NONE

VENTILATION

Use adequate ventillation to avoid nuisance dusts.

NORMAL HANDLING

Avoid dust generation.

STORAGE

—

SPILL OR LEAK

SPECIAL PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS

NONE

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

NIOSH approved dust respirator

EYES AND FACE

Wear eye protection to avoid dust in eyes.

HANDS, ARMS, AND BODY

NONE

OTHER CLOTHING AND EQUIPMENT

Not Required

F. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS):	APPEARANCE AND ODOR	
☐ LIQUID ☒ SOLID ☐ GAS ☐ _____	Grey to redish-brown, powder or damp sandy powder.	
BOILING POINT °C MELTING POINT NA °C	SPECIFIC GRAVITY (H_2O = 1) 3.3	VAPOR DENSITY (AIR = 1) NA
SOLUBILITY IN WATER (% by Weight) < 1	pH NA	VAPOR PRESSURE (mm Hg at 20° C) ☐ (PSIG) ☐ NA
EVAPORATION RATE (Butyl Acetate = 1) ☐ (Ether = 1) ☐ NA	% VOLATILES BY VOLUME (At 20° C) NA	

G. REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
☐ UNSTABLE ☒ STABLE	NONE

INCOMPATIBILITY (MATERIALS TO AVOID)

NONE

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
☐ MAY OCCUR ☒ WILL NOT OCCUR	

H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT/C.A.S. #	WT. %	HAZARD DATA (SEE SECT. J)

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY	OCTANOL/WATER PARTITION COEFFICIENT

EPA HAZARDOUS SUBSTANCE? ☐ YES ☒ NO IF SO, REPORTABLE QUANTITY: — # — 40 CFR 116-117

WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS)

Material is non-hazardous. Can be swept up and shoveled into a container for disposal in a sanitary landfill.

RCRA STATUS OF UNUSED MATERIAL: — 40 CFR 261

J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES

ACGIH — Nuisance dust

REGULATORY STANDARDS — D.O.T. CLASSIFICATION: — 49 CFR

GENERAL

K. ADDITIONAL INFORMATION

THIS MATERIAL SAFETY DATA SHEET IS FOR IN-PLANT USE ONLY.
IT IS NOT TO BE DISTRIBUTED OUTSIDE ALLIED CORP.

EXHIBIT A

CHARACTERIZATION OF ALUM MUDS

The following characterization of alum muds is intended by the parties to this Agreement to be generally descriptive of alum muds although the parties agree that the actual alum muds placed in the alum cell may deviate somewhat from this typical characterization and that the characterization is or may not be complete for every purpose.

TYPICAL RESIDUE COMPOSITION
(% Weight Dry Basis)

SiO_2	77
Al_2O_3	13
TiO_2	3
Fe_2O_3	<1
Other	6
	100%
Typical % solids	45

Physical Consistency: Thixotropic Mud

Typical RCRA - Extraction Procedure Alalysis
(mg/l.)

Arsenic	< 0.002
Barium	< 0.2
Cadmium	< 0.002
Chromium	< 0.05
Lead	< 0.05
Mercury	< 0.0003
Selenium	< 0.003
Silver	< 0.005
pH	3.5

Endrin, Lindane, Methoxychlor, Toxaphene, 2, 4-D, and 2, 4, 5-TP (Silvex) are not present in process.