



chemists helping chemists in research & industry

aldrich chemical co.

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DATE: 03/10/87
CUST # 938609 P.O. #

M A T E R I A L S A F E T Y D A T A S H E E T

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IDENTIFICATION

PRODUCT # 20265-7 NAME: ARSENIC, PIECES, 99.9999%
CAS # 7440-38-2

TOXICITY HAZARDS

RTECS # CG0525000

ARSENIC

REVIEWS, STANDARDS, AND REGULATIONS

CARCINOGENIC REVIEW: HUMAN POSITIVE IMEMDT 23,39,80

CARCINOGENIC REVIEW: INDEFINITE IMEMDT 2,48,73

MSHA STANDARD-AIR: TWA 0.5 MG/M3 DTLVS* 3,16,71

OSHA STANDARD-AIR: TWA 0.01 MG(AS)/M3 FEREAC 43,19584,78

NIOSH REL TO INORGANIC ARSENIC-AIR: CL 0.002 MG(AS)/M3/15M MMWR**
34(1S),7S,85

REPORTED IN EPA TSCA INVENTORY, 1983

EPA TSCA SECTION 8(E) STATUS REPORT BEHQ-0680-0345

NIOSH CURRENT INTELLIGENCE BULLETIN 14, 1976

"NIOSH MANUAL OF ANALYTICAL METHODS" VOL 1 139 NIMAM*

"NIOSH MANUAL OF ANALYTICAL METHODS" TO BE REVISED BY JUNE, 1985

"NIOSH MANUAL OF ANALYTICAL METHODS, 3RD ED." SEE: METHODS 7300, 7900
AND 7901

NTP FOURTH ANNUAL REPORT ON CARCINOGENS, 1984

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,
82

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

DANGER

POISON

CARCINOGEN.

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.

CAUSES IRRITATION.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT,
GIVE OXYGEN.

IN CASE OF EXPOSURE, OBTAIN MEDICAL ATTENTION IMMEDIATELY.
WASH THOROUGHLY AFTER HANDLING.

PHYSICAL DATA

MELTING POINT: 817 C
SPECIFIC GRAVITY: 5.727

FIRE AND EXPLOSION HAZARD DATA

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CATALOG # 20265-7

NAME: ARSENIC, PIECES, 99.9999%

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

HEAT

ACIDS

OXIDIZING AGENTS

HALOGENS

AIR-SENSITIVE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

ARSENIC OXIDES

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY

RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD

MATERIAL IN THE ELEMENTAL STATE SHOULD BE RECOVERED FOR REUSE OR RECYCLING.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

LONG RUBBER OR NEOPRENE GAUNTLET GLOVES.

CHEMICAL SAFETY GOGGLES.

OSHA/MSHA-APPROVED RESPIRATOR.

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

HIGHLY TOXIC.

CARCINOGEN.

STORE IN A COOL DRY PLACE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

FOR PROTECTION AND HANDLING REQUIREMENTS CONSULT CFR TITLE 29 PART 1910.

ADDITIONAL INFORMATION

NON-COMBUSTIBLE BUT PRODUCES POISONOUS FUMES AT HIGH TEMPERATURE.

HYDROGEN GAS CAN REACT WITH INORGANIC ARSENIC TO FORM THE HIGHLY TOXIC GAS ARSINE.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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