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PREPARED 11/09

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

### SECTION 1. ----- CHEMICAL IDENTIFICATION-----

NAME: **CADMIUM CYANIDE**

### SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS #: 542-83-6

### SECTION 3. ----- HAZARDS IDENTIFICATION -----

#### LABEL PRECAUTIONARY STATEMENTS

HIGHLY TOXIC (USA)

VERY TOXIC (EU)

VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

CAUSES BURNS.

CONTACT WITH ACIDS LIBERATES VERY TOXIC GAS.

READILY ABSORBED THROUGH SKIN.

TARGET ORGAN(S):

CENTRAL NERVOUS SYSTEM

CARDIOVASCULAR SYSTEM

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

DO NOT BREATHE DUST.

### SECTION 4. ----- FIRST-AID MEASURES-----

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 SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IMMEDIATELY.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL

RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS

WITH FINGERS.

### SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

APPROPRIATE FOAM.

DO NOT USE CARBON DIOXIDE EXTINGUISHER ON THIS MATERIAL.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

PREVENT CONTACT WITH SKIN AND EYES.

USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

EVACUATE AREA.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY

RUBBER GLOVES.

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

AVOID RAISING DUST.

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

SECTION 7. ----- HANDLING AND STORAGE-----

REFER TO SECTION 8.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT

GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

FACESHIELD (8-INCH MINIMUM).

SAFETY SHOWER AND EYE BATH.

USE ONLY IN A CHEMICAL FUME HOOD.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

DISCARD CONTAMINATED CLOTHING AND SHOES.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

PHYSICAL PROPERTIES

SOLID

MELTING POINT: N/A

SOLUBILITY:

WATER : 1 M IN H<sub>2</sub>O, 20° C

PH: (5% AQUEOUS) 11.0 - 12.0

SECTION 10. ----- STABILITY AND REACTIVITY -----

STABILITY

STABLE.

CONDITIONS TO AVOID

MAY DECOMPOSE ON EXPOSURE TO MOIST AIR OR WATER.

INCOMPATIBILITIES

AVOID CONTACT WITH ACID.

STRONG OXIDIZING AGENTS

CARBON DIOXIDE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN CYANIDE

CARBON MONOXIDE, CARBON DIOXIDE

NITROGEN OXIDES

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

ACUTE EFFECTS

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

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES

AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE

LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,

WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND

VOMITING.

LUNG IRRITATION

CYANOSIS

CNS DEPRESSION

CHRONIC EFFECTS

TARGET ORGAN(S):

CENTRAL NERVOUS SYSTEM

BLOOD

LUNGS

CARDIOVASCULAR SYSTEM

THYROID

RTECS #: VZ7525000

CADMIUM CYANIDE

TOXICITY DATA

ORL-WMN LDLO:40 MG/KG

FSINDR 38,173,1988

ORL-CHD LDLO:100 MG/KG

FSINDR 38,173,1988

ORL-HMN LDLO:2800 UG/KG

NTIS\*\* OTS0528336

ORL-MAN LDLO:6557 UG/KG

APTOA6 1,18,1945

ORL-HMN LDLO:2857 UG/KG

34ZIAG -,191,1969

UNR-MAN LDLO:2206 UG/KG

85DCAI 2,73,1970

ORL-RAT LD50:6440 UG/KG	28ZPAK -,13,1972
IPR-RAT LD50:4300 UG/KG	GISAAA 43(12),90,1978
IPR-MUS LD50:4900 UG/KG	NTIS** OTS0528336
SCU-MUS LD50:3600 UG/KG	AJPHAP 179,60,1954
UNR-MUS LD50:10 MG/KG	IGAYAY 112,861,1980
SCU-DOG LD50:5360 UG/KG	JAMAAP 149,113,1952
SKN-RBT LD50:10400 UG/KG	NTIS** OTS0536153
IMS-RBT LD50:1666 UG/KG	JACTDZ 1(3),120,1982
OCU-RBT LD50:5048 UG/KG	JACTDZ 1(3),120,1982
SCU-GPG LD50:5800 UG/KG	MELAAD 46,221,1955
ORL-CKN LD50:21 MG/KG	JWIDAW 22,538,1986
ORL-QAL LD50:8500 UG/KG	JWIDAW 22,538,1986
ORL-DCK LD50:2500 UG/KG	NTIS** OTS0530251
ORL-DOM LD50:4 MG/KG	TXAPA9 45,359,1978
ORL-MAM LD50:8 MG/KG	BECTA6 23,211,1979
ORL-BWD LD50:4 MG/KG	JWIDAW 22,538,1986

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (SPASTIC PARALYSIS  
WITH/WITHOUT SENSORY CH  
SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)  
BEHAVIORAL (SOMNOLENCE)  
BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)  
BEHAVIORAL (TREMOR)  
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
BEHAVIORAL (FLUID INTAKE)  
BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)  
BEHAVIORAL (MUSCLE WEAKNESS)  
BEHAVIORAL (ATAXIA)  
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)  
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)  
GASTROINTESTINAL (CHANGES IN STRUCTURE OR FUNCTION OF  
SALIVARY GLANDS)  
GASTROINTESTINAL (GASTRITIS)  
GASTROINTESTINAL (OTHER CHANGES)  
ADDITIONAL INFORMATION  
ORAL LETHAL DOSE IN HUMANS IS 2.8MG/KG.  
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL  
SUBSTANCES  
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
COMPLETE INFORMATION.  
SECTION 12. ----- ECOLOGICAL INFORMATION -----  
DATA NOT YET AVAILABLE.  
SECTION 13. ----- DISPOSAL CONSIDERATIONS -----  
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO  
DISPOSE OF  
THIS MATERIAL.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

CONTACT CITY CHEMICAL LLC. FOR TRANSPORTATION INFORMATION.

SECTION 15. ----- REGULATORY INFORMATION -----

EUROPEAN INFORMATION

VERY TOXIC

R 26/27/28

VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R 34

CAUSES BURNS.

R 32

CONTACT WITH ACIDS LIBERATES VERY TOXIC GAS.

S 45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

S 22

DO NOT BREATHE DUST.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,1989

OSHA PEL (GEN INDU):8H TWA 5 MG(CN)/M3

CFRGBR 29,1910.1000,1994

OSHA PEL (CONSTRUC):8H TWA 5 MG(CN)/M3

CFRGBR 29,1926.55,1994

OSHA PEL (SHIPYARD):8H TWA 5 MG(CN)/M3

CFRGBR 29,1915.1000,1993

OSHA PEL (FED CONT):8H TWA 5 MG(CN)/M3

CFRGBR 41,50-204.50,1994

OEL-AUSTRALIA: TWA 5 MG/M3, SKIN, JAN1993

OEL-AUSTRIA: MAK 5 MG(CN)/M3, SKIN, JAN1999

OEL-DENMARK: TWA 5 MG/M3, SKIN, JAN1999

OEL-FRANCE: VME 5 MG(CN)/M3, SKIN, JAN1999

OEL-GERMANY: MAK 5 MG(CN)/M3, SKIN, JAN1999

OEL-POLAND: TWA 0.3 MG(CN)/M3, CEILING 10 MG(CN)/M3, JAN1999

OEL-SWITZERLAND: MAK-W 5 MG/M3, KZG-W 10 MG/M3, SKIN, JAN1999

OEL-UNITED KINGDOM: TWA 5 MG(CN)/M3, SKIN, SEP2000

OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK  
ACGIH TLV;

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO CYANIDE-AIR:CL 4.7 PPM(CN)/10M

NIOSH\* DHHS #92-100,1992

NOHS 1974: HZD 68950; NIS 68; TNF 3285; NOS 41; TNE 27329

NOES 1983: HZD 68950; NIS 74; TNF 4423; NOS 63; TNE 66484; TFE 15327

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0693-9229

ON EPA IRIS DATABASE

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1999

NTP TOXICITY STUDIES, RPT# TOX-37, OCTOBER 1999

U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING  
REQUIREMENTS.

SECTION 16. ----- OTHER INFORMATION-----

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT  
PURPORT TO

BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. CITY  
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