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Aldrich Chemical Co., Inc.
1001 West St. Paul
Milwaukee, WI 53233 USA
Tel: 414-273-3850

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- - - - -

CATALOG #: 416479
NAME: MANGANESE(II) CHLORIDE, FLAKES, 97%

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

CAS #: 7773-01-5
MF: CL2MN
EC NO: 231-869-6

SYNONYMS

MANGANESE CHLORIDE * MANGANESE DICHLORIDE * MANGANOUS CHLORIDE *

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

LABEL PRECAUTIONARY STATEMENTS

TOXIC (USA)
HARMFUL (EU)
HARMFUL IF SWALLOWED.
POSSIBLE RISK OF IRREVERSIBLE EFFECTS.
TARGET ORGAN(S):

LUNGS
NERVES

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

WEAR SUITABLE PROTECTIVE CLOTHING.

STORE UNDER NITROGEN.

MOISTURE SENSITIVE

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

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

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

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

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

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

R 40

POSSIBLE RISK OF IRREVERSIBLE EFFECTS.

S 26

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

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-TWA 0.2 MG(MN)/M3

DTLVS* TLV/BEI,1999

MSHA STANDARD-AIR:CL 5 MG(MN)/M3

DTLVS* 3,149,1971

OSHA PEL (GEN INDU):CL 5 MG(MN)/M3

CFRGBR 29,1910.1000,1994

OSHA PEL (CONSTRUC):CL 5 MG(MN)/M3

CFRGBR 29,1926.55,1994

OSHA PEL (SHIPYARD):CL 5 MG(MN)/M3

CFRGBR 29,1915.1000,1993

OSHA PEL (FED CONT):CL 5 MG(MN)/M3

CFRGBR 41,50-204.50,1994

OEL-AUSTRALIA: TWA 5 MG(MN)/M3, JAN1993

OEL-BELGIUM: TWA 5 MG(MN)/M3, JAN1993

OEL-DENMARK: TWA 2.5 MG(MN)/M3, JAN1999

OEL-FINLAND: TWA 0.5 MG(MN)/M3, JAN1999

OEL-HUNGARY: TWA 0.3 MG(MN)/M3, STEL 0.6 MG(MN)/M3, JAN1993

OEL-JAPAN: OEL 0.3 MG(MN)/M3, RESPIRABLE DUST, JAN1999

OEL-THE NETHERLANDS: MAC-TGG 1 MG(MN)/M3, MAC-K 3 MG(MN)/M3, JAN1999

OEL-POLAND: MAC(TWA) 0.3 MG(MN)/M3, MAC(C) 5 MG(MN)/M3, JAN1999

OEL-SWEDEN: NGV 1 MG(MN)/M3, TGV 2.5 MG(MN)/M3 (RESP. DUST), JAN1993

OEL-SWEDEN: NGV 2.5 MG(MN)/M3, TGV 5 MG(MN)/M3 (TOTAL DUST), JAN1993

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

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

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NOHS 1974: HZD 84353; NIS 7; TNF 320; NOS 12; TNE 4916

NOES 1983: HZD 84353; NIS 6; TNF 788; NOS 16; TNE 13961; TFE 9451

EPA GENETOX PROGRAM 1988, POSITIVE: CELL TRANSFORM.-SA7/SHE; B SUBTILIS
REC ASSAY

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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

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