



Material Safety Data Sheet

Product: (White) Potash
Effective Date: 1/7/97

Revised Date: 11/29/07

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MCC MSDS No. 043A

PRODUCT NAME: (WHITE) POTASH
TRANSPORTATION EMERGENCIES: (800) 424-9300 (CHEMTREC)
HEALTH EMERGENCIES: CONTACT LOCAL POISON CENTER

HAZARDS OF PRODUCT:

* CAUTION! May cause irritation. *

SECTION I - PRODUCT INFORMATION

CHEMICAL NAME: POTASSIUM CHLORIDE
FORMULA: KCL
CHEMICAL FAMILY: INORGANIC SALT
CAS NO. 7447-40-7
EXPOSURE STANDARD: NONE ESTABLISHED. THE OSHA NUISANCE DUST LIMIT OF 15 MG/M3 OR THE ACGIH NUISANCE DUST TLV OF 10 MG/M3 OR THE TIME WEIGHTED AVERAGE APPLIES.

SECTION II - PERSONAL PROTECTION INFORMATION

VENTILATION: PROVIDE LOCAL OR GENERAL VENTILATION TO KEEP DUST BELOW THE OSHA NUISANCE DUST LIMIT OF 15 MG/M3.
EYES: SAFETY GLASSES SHALL BE WORN.
SKIN: NO PROTECTION NORMALLY REQUIRED. IF IRRITATION OCCURS, LONG SLEEVES AND IMPERVIOUS GLOVES SHOULD BE WORN.
RESPIRATORY: A NIOSH APPROVED DUST RESPIRATOR SHALL BE USED WHEN EXPOSURE EXCEEDS THE OSHA STANDARD OF 15 MG/M3.
OTHER: WASHING FACILITIES SHALL BE AVAILABLE.

SECTION III - HEALTH INFORMATION

ROUTES OF ENTRY PHYSIOLOGICAL AND HEALTH EFFECTS
EYES: WILL PRODUCE PAIN AND IRRITATION.
SKIN: SLIGHTLY IRRITATING.
INHALATION: CAN CAUSE IRRITATION TO MUCOUS MEMBRANES, NASAL AND RESPIRATORY PASSAGES. SYSTEMIC EFFECTS ARE NOT LIKELY.
INGESTION: LARGE DOSES CAUSE GI IRRITATION.

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TOXICITY: ORAL: HUMAN LDLO - 500 MG/KG
ORAL: RAT LDLO - 100 MG/KG

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 20 MINUTES. SEEK MEDICAL ATTENTION.
SKIN: WASH THOROUGHLY WITH WATER AND SOAP.
INHALATION: REMOVE TO FRESH AIR. IF DISCOMFORT CONTINUES SEEK MEDICAL ATTENTION.
INGESTION: IF PERSON IS CONSCIOUS, DILUTE STOMACH CONTENTS WITH WATER. SEEK MEDICAL ATTENTION.

SECTION IV - REACTIVITY DATA

STABILITY: STABLE SALT
CONDITIONS TO AVOID: NOT APPLICABLE
INCOMPATIBILITY: AVOID STRONG OXIDIZERS
DECOMPOSITION PRODUCTS: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION V - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: WHITE/GRAY/PINK CRYSTALS OR POWDER. ODORLESS.
BOILING POINT: 1500 DEGREES CELSIUS
MELTING POINT: 776 DEGREES CELSIUS (SUBLIMES AT 15000)
SOLUBILITY: SOLUBLE IN WATER 25.8% BY WT. @20 C, SLIGHTLY SOLUBLE IN ALCOHOL, INSOLUBLE IN ABSOLUTE ALCOHOL.
SPECIFIC GRAVITY H2O = 1 : 1.988
MOLECULAR WEIGHT: 74.55

CHEMICAL DATA	% RANGE	% TYPICAL	% GUARANTEE
KCL	98 - 98.6	98.5	98.1
MOISTURE %	0.1 - 0.5	0.35	

PHYSICAL DATA, % CUMULATIVE

TYLER MESH	OPENING MM	RANGE	TYPICAL
+14	1.17		1
+20	0.833		13
+28	0.59		33
+35	0.42		54
+48	0.30		81
+65	0.21		91

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TYPICAL CHEMICAL ANALYSIS

KCL	98.5
K	51.6
MG	0.04
CA	0.001
NA	0.4
CL	47.6
SO ₄	0.05
INSOL.	0.01
BR	.03
FE	2 PPM
PB	2 PPM
ZN	2 PPM
AS	300 PPB
BE	<1 PPB
BI	<1 PPB
CD	<1 PPB
CR	<4 PPB
CU	80 PPB
HG	30 PPB
NI	35 PPB

TYPICAL BULK DENSITY

76-85 LBS/FT³

Angle of Repose = 28-32 degrees

Anti-caking agent @ 0.32lb./T Corsamine PHT

SECTION VI - HANDLING AND STORAGE PRECAUTIONS

STORE IN COOL, DRY, WELL VENTILATED AREA. DO NOT GET INTO EYES. WASH THOROUGHLY AFTER HANDLING.

SECTION VII - FIRE PROTECTION INFORMATION

NFPA RATING: FLAMMABILITY: D
FLASH POINT: NOT APPLICABLE.
EXTINGUISHING MEDIA: ANY SUITABLE FOR OTHER MATERIALS INVOLVED.
FLAMMABLE LIMITS
(BY VOLUME IN AIR): NOT APPLICABLE
SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSIVE HAZARDS: COULD EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

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SECTION VIII - DEPARTMENT OF TRANSPORTATION REQUIREMENTS

THIS MATERIAL IS NOT CLASSIFIED AS A HAZARDOUS MATERIAL BY THE DEPARTMENT OF TRANSPORTATION.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
SPILLED MURIATE OF POTASH CAN BE REUSED IF KEPT DRY AND UNCONTAMINATED. AFTER CLEANUP, CONTAMINATED AREA SHOULD BE WASHED DOWN WITH WATER. DO NOT ALLOW WASHWATER TO ENTER DRINKING WATER SUPPLIES. IN THE EVENT OF SPILL OR WASHWATER ENTERING SEWER OR WATERWAY, NOTIFY SEWER AUTHORITIES OR OTHER APPROPRIATE AGENCIES.

WASTE DISPOSAL METHODS

IF UNCONTAMINATED, RECOVER AND REUSE AS PRODUCT. CONSULT STATE OR FEDERAL REGULATORY AGENCIES FOR ACCEPTABLE DISPOSAL PROCEDURES AND DISPOSAL LOCATIONS.

REPORTABLE QUANTITIES: NONE ESTABLISHED.

SECTION X - CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

NATIONAL TCSA REGISTRATION: YES
NATIONAL TOXICOLOGY I.A.R.C. PROGRAM: YES
MONOGRAMS: NO
OSHA: NO

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