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MATERIAL SAFETY DATA SHEET:  
POTASSIUM CHLORIDE  
CATALOG NUMBER: AB01653

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SECTION I – PRODUCT INFORMATION

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PRODUCT: POTASSIUM CHLORIDE  
GRADE: ACS/USP/FCC  
FORMULA: KCl  
FORMULA WEIGHT: 74.55  
PHYSICAL DESCRIPTION: WHITE CRYSTALLINE

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SECTION II – COMPOSITION/INFORMATION ON INGREDIENT

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SUBSTANCE NAME: POTASSIUM CHLORIDE  
CAS NUMBER: 7447-40-7  
SARA 313: NO  
RTECS: TS8050000  
SYNONYMS: POTASSIUM CHLORIDE \* CHLORID DRASELNY (CZECH) \*  
CHLOROPOTASSURIL \* DIPOTASSIUM DICHLORIDE

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SECTION III – HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW: CAUTION: AVOID CONTACT AND INHALATION

**HMIS RATING**

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0

**NFPA RATING**

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0

FOR ADDITIONAL INFORMATION ON TOXICITY, PLEASE REFER TO SECTION XI

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SECTION IV – FIRST AID MEASURES

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ORAL EXPOSURE: IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.  
INHALATION EXPOSURE: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT CALL A PHYSICIAN.  
DERMAL EXPOSURE: IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.  
EYE EXPOSURE: 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.

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SECTION V – FIRE FIGHTING MEASURES

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FLASH POINT: N/A  
AUTOIGNITION TEMP: N/A  
FLAMMABILITY: N/A

EXTINUISHING MEDIA: SUITABLE: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

FIREFIGHTING: PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. SPECIFIC HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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#### SECTION VI – ACCIDENTAL RELEASE MEASURES

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##### PROCEDURES OF PERSONAL PRECAUTIONS

EXERCISE APPROPRIATE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION OF DUST.

METHODS FOR CLEANING UP: 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.

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#### SECTION VII – HANDLING AND STORAGE

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HANDLING: USER EXPOSURE: AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

STORAGE: SUITABLE. KEEP TIGHTLY CLOSED.

SPECIAL REQUIREMENTS: HYGROSCOPIC.

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#### SECTION VIII – EXPOSURE CONTROLS/PPE

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ENGINEERING CONTROLS: SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED.

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY: WEAR DUST MASK.

HAND: PROTECTIVE GLOVES.

EYE: CHEMICAL SAFETY GOGGLES.

GENERAL HYGIENE MEASURES

WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

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#### SECTION IX – PHYSICAL / CHEMICAL PROPERTIES

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MOLECULAR WEIGHT: 74.56 AMU

PH: 7

BP/BP RANGE: 1,500°C

MP/MP RANGE: 770°C

SG/DENSITY: 1.98 G/CM<sup>3</sup>

SOLUBILITY: SOLUBILITY IN WATER: SOLUBLE.

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#### SECTION X – STABILITY AND REACTIVITY

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STABILITY: STABLE

CONDITIONS TO AVOID: MOISTURE

MATERIALS TO AVOID: STRONG ACIDS, STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE GAS, POTASSIUM OXIDES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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#### SECTION XI – TOXICOLOGICAL INFORMATION

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##### ROUTE OF EXPOSURE

SKIN CONTACT: MAY CAUSE SKIN IRRITATION

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.

EYE CONTACT: MAY CAUSE EYE IRRITATION

INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

SIGNS AND SYMPTOMS OF EXPOSURE: HYPERKALAEMIA, NAUSEA, VOMITING, ABDOMINAL PAIN, DIARRHEA OR CONSTIPATION, PARAESTHESIA, THIRST, IDZZINESS, SKIN RASH, PRURITUS, WEAKNESS, MUSCLE CRAMPS, AND MINOR PSYCHIATRIC OR VISUAL CHANGES.

ORL-MUS LD50: 56MG/KG \* ORAL-RAT LD50: 36 TO 85 MG/KG (DEPENDING ON STRAIN)

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SECTION XII – ECOLOGICAL INFORMATION

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NO DATA AVAILABLE.

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SECTION XIII – DISPOSAL CONSIDERATIONS

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

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SECTION XIV – TRANSPORT INFORMATION

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DOT

PROPER SHIPPING NAME: NONE

NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-HAZARDOUS FOR TANSPORT.

IATA

NON-HAZARDOUS FOR AIR TRANSPORT

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SECTION XV – REGULATORY INFORMATION

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**EU ADDITIONAL CLASSIFICATION**

S: 22 24/25

SAFETY STATEMENTS: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES.

**US CLASSIFICATION AND LABEL TEXT**

US STATEMENTS: CAUTION: AVOID CONTACT AND INHALATION.

**UNITED STATES REGULATORY INFORMATION**

SARA LISTED: NO

TSCA INVENTORY ITEM: YES

**CANADA REGULATORY INFORMATION**

WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATIN REQUIRED BY THE CPR.

DSL: YES

NDSL: NO

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SECTION XVI – OTHER INFORMATION

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DISCLAIMER: FOR R&D USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

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REVISION DATE 2/14/05