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FORMULA: KC26PI  
MSDS EFFECTIVE: 04/18/97  
SUPERSEDES MSDS OF: 11/04/94  
COF: 934418  
INVOICE: 923730  
SDS KEY: 0864417

SECTION I - PRODUCT IDENTIFICATION

PART NUMBER: 07149  
PRODUCT NAME: ROTANIUM SUPER SET SOLDER ASST  
TRADE NAME/SYNONYMS: SUPER-SET SOLDER  
CHEMICAL FAMILY: SOLDER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	WT %	PEL	TLV	STEL UNITS	LC50, PPM	LD50, MG/KG
LEAD	#07439-92-1	30-40	.05*	.05*	N/A	MG/M3	N/A
SILVER	#07440-22-4	1-5	.01	.1	N/A	MG/M3	N/A
TIN	07440-31-5	60-70	2	2	N/A	MG/M3	N/A

SECTION III - PHYSICAL DATA

BOILING PT DEG F/C: N/A  
VAPOR PRESSURE(MM HG): N/A  
VAPOR DENSITY(AIR=1): N/A  
SOLUBILITY IN WATER: INSOLUBLE  
PHYSICAL STATE: SOLID  
FREEZE PT DEG F/C: N/A  
APPEARANCE AND ODOR: SILVER GRAY WIRE, ODORLESS  
VOC: LBS/GAL=N/A ; GRAMS/LITER=N/A ; GRAMS VOC/GRAM SOLID=N/A ; % VOC N/A  
SPECIFIC GRAVITY: N/A  
%VOLATILE VOLUME: N/A  
EVAPORATION RATE: N/A  
WATER/OIL DIST COEFF: N/A  
PH: N/A  
THRESHOLD ODOR, PPM: N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: N/A  
COMBUSTION PRODUCTS: OXIDES OF TIN, LEAD, SILVER, CARBON  
FLASH POINT DEG F/C: N/A  
EXTINGUISHING MEDIA: N/A  
AUTO IGN. TEMP DEG F/C: N/A  
SPECIAL FIRE FIGHTING PROCEDURES:  
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
CONTACT WITH FLAME OR HOT SURFACES MAY PRODUCE TOXIC GASES.  
EXPLOSIVE POWER: N/A  
BURNING RATE: N/A  
NFPA RATING: 3, 0, 1  
HMIS: 3, 0, 1  
LEL%: N/A UEL%: N/A  
IMPACT SENSITIVE: NO  
STATIC SENSITIVE: NO

## ===== SECTION V - HEALTH HAZARD DATA =====

POINTS OF ENTRY: SKIN CONTACT, EYE, INHALATION

## EFFECTS OF OVEREXPOSURE:

SHORT TERM OVEREXPOSURES TO FUMES MAY RESULT IN DIZZINESS, NAUSEA OR DRYNESS OR IRRITATION OF NOSE, THROAT, EYES OR RESPIRATORY SYSTEM. CHRONIC EXCESS FUMES ABOVE PEL OR TLV MAY AFFECT EYES, NASAL PASSAGES & SKIN. MAY CAUSE BIRTH DEFECTS. MAY CAUSE CHRONIC EFFECTS TO THE GASTROINTESTINAL TRACT, CENTRAL NERVOUS SYSTEM, KIDNEYS AND BLOOD.

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

ANY SUSPECTED CARCINOGEN = OR > 0.1%?: YES IARC LISTS LEAD.

## EMERGENCY AND FIRST AID PROCEDURES:

EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MIN. & CALL PHYSICIAN.  
SKIN: WASH THOROUGHLY WITH PLENTY OF WATER & SOAP. INHALATION: IF AFFECTED, REMOVE TO FRESH AIR, ADMINISTER OXYGEN & CALL PHYSICIAN. INGESTION: SEEK PHYSICIAN IMMEDIATELY, SHOW MSDS OR LABEL, INDUCE VOMITING.

## ===== SECTION VI - REACTIVITY DATA =====

STABLE: YES CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): YES STRONG ACIDS, OXIDIZING MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS: YES CO, LEAD OXIDES

HAZARDOUS POLYMERIZATION: NO

## ===== SECTION VII - SPILL OR LEAK PROCEDURES =====

STED IN: SARA TITLE III; #302: NO #304, CERCLA: YES #313: YES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CONTAIN &amp; PICK UP WASTE MATERIALS. PUT IN A SEALED APPROVED CONTAINER.

## DISPOSAL METHOD:

DISPOSE OF WASTES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## ===== SECTION VIII - SAFE HANDLING AND PROTECTION INFORMATION =====

VENTILATION-LOCAL: REQUIRED

SPECIAL: WELDERS ANSI Z49.1

MECHANICAL: REQUIRED

OTHER: N/A

PROTECTIVE GLOVES: PROTECTIVE GLOVES

EYE PROTECTION: GOGGLES/FACE SHIELD

## PRECAUTIONS IN USE:

IF VENTILATION IS INADEQUATE, WEAR APPROVED RESPIRATORY PROTECTION.

ESTIMATED LD50, MG/KG: NO

ESTIMATED LC50, PPM: NO

SENSITIZATION: NO

IRRITANT: NO

SYNERGISTIC AGENTS: NO

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SECTION IX - SPECIAL PRECAUTIONS  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

ARCS, SPARKS & FLAME MAY BE A SOURCE OF IGNITION OF COMBUSTIBLE MATERIALS. USE ONLY IN WELL VENTILATED AREAS. DO NOT BREATHE DUST OR FUME. IF VENTILATION IS INADEQUATE, WEAR APPROVED RESPIRATORY EQUIPMENT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER USING. DO NOT USE PRODUCT WHILE EATING, DRINKING OR USING TOBACCO PRODUCTS. IN CASE OF ACCIDENT OR ILLNESS, SEEK PHYSICIAN IMMEDIATELY, SHOW LABEL OR MSDS.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. ALWAYS READ & FOLLOW DIRECTIONS ON PRODUCT LABEL. ADDITIONAL TECHNICAL DATA SHEETS AND/OR MATERIAL SAFETY DATA SHEETS (MSDS) ARE AVAILABLE UPON REQUEST. FOR PROFESSIONAL & INDUSTRIAL USE ONLY.

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SYMBOLS, ABBREVIATIONS AND NOTATIONS:

#=LISTED IN SARA TITLE III SECTION 313; @=NON-HAZARDOUS INGREDIENT AMONG THE 5 MOST PREDOMINANT SUBSTANCES; +=CONTAINS ENCAPSULATED SILICA-CRYSTALLINE. NORMAL PRODUCT USAGE SHOULD NOT RESULT IN RESPIRABLE DUST THAT WOULD BE HAZARDOUS TO THE RESPIRATORY SYSTEM; N/A=NOT AVAILABLE OR APPLICABLE; \*=IF FOUND AS DUST, MIST OR FUME; C=CEILING LIMIT; S=SKIN DESIGNATION; M=HUMAN; RAB=RABBITS; GPC=GUINEA PIGS; MIC=MICE; I=INGESTION; A=SKIN ABSORPTION; LO=LITTLE OBSERVABLE EFFECT; NO=NO EFFECT; PEL=OSHA PERMISSIBLE EXPOSURE LIMIT; TLV=ACGIH THRESHOLD LIMIT VALUE; STEL=SHORT TERM EXPOSURE LIMIT.

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ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR ARE EXEMPT FROM LISTING ON THE TSCA INVENTORY AND THE CANADIAN DSL OR NDSL. MSDS PREPARED BY THE CORPORATE COMPLIANCE DEPARTMENT.

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