ITEM: 3KYT3 - Inverted Marking Chalk White 15 oz

MSDS: D9527 ORDER: 0160927147 LP NUMBER: U874543944

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

SDS - D9527

Associated Grainger Items

SAFETY DATA SHEET

KWBC03505

- SECTION 1. IDENTIFICATION -

PRODUCT NAME: KRYLON(R*) INDUSTRIAL QUIK-MARK(IM) WATER-BASED INVERTED MARKING CHALK

PRODUCT CODE: KWBC03505

OTHER MEANS OF IDENTIFICATION: NOT AVAILABLE.

PRODUCT TYPE: AEROSOL.

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: NOT APPLICABLE.

MANUFACTURER:
THE SHERWIN-WILLIAMS COMPANY
KRYLON PRODUCTS GROUP
CLEVELAND, CH 44115

EMERGENCY TELEPHONE NUMBER OF THE COMPANY: (216) 566-2917

PRODUCT INFORMATION TELEPHONE NUMBER: (800) 247-3266

REGULATORY INFORMATION TELEPHONE NUMBER: (216) 566-2902

TRANSPORTATION EMERGENCY TELEPHONE NUMBER: (800) 424-9300

- SECTION 2. HAZARDS IDENTIFICATION -

OSHA/HCS STATUS: THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: FLAMMABLE AEROSOLS: CATEGORY 1 GASES UNDER PRESSURE: COMPRESSED GAS SKIN CORROSION/IRRITATION: CATEGORY 2 SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2A

CARCINOGENICITY: CATEGORY 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): CATEGORY 2

PERCENTAGE OF THE MIXTURE CONSISTING OF INCREDIENT(S) OF UNKNOWN TOXICITY:

GHS LABEL ELEMENTS:

HAZARD PICTOGRAMS:

FLAME FLAME GAS CYLINDER HEALTH HAZARD EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

EXTREMELY FLAMMABLE AEROSOL. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION.

SUSPECTED OF CAUSING CANCER.
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

PRECAUTI ONARY STATEMENTS:

GENERALL BEFORE USE, KEEP OUT OF REACH OF CHILDREN. IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

PREVENTION:

BEATH SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. WEAR PROTECTIVE GLOVES. WEAR EYE OR FACE PROTECTION. KEEP APAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR HIPN, EVEN AFTER USE. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. DO NOT BREATHE DUST OR MIST. WASH HANDS THOROUGHLY AFTER HANDLING.

RESPONSE: GET MEDICAL ATTENTION IF YOU FEEL UNWELL.

IF EXPOSED OR CONCERNED: GET MEDICAL ATTENTION.

WASH WITH PLENTY OF SOAP AND WATER. TAKE OFF CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

IF SKIN IRRITATION OCCURS: GET MEDICAL ATTENTION.

IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEPDING 50 DEG. C/122 DEG. F. STORE IN A WELL-VENTILATED PLACE.

DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH ALL LOCAL, REGIONAL, NATIONAL AND INTERNATIONAL REGULATIONS.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. CONTAINS SOLVENTS WHICH CAN CAUSE PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

DITTINGAW

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR INDUSTRIAL USE ONLY.

PLEASE REFER TO THE SDS FOR ADDITIONAL INFORMATION. KEEP UPRIGHT IN A COOL, DRY PLACE. DO NOT DISCARD EMPTY CAN IN TRASH COMPACTOR.

HAZARDS NOT OTHERWISE CLASSIFIED: NONE KNOWN.

- SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS -

SUBSTANCE/MIXTURE: MIXTURE

OTHER MEANS OF IDENTIFICATION: NOT AVAILABLE.

CAS NUMBER/OTHER IDENTIFIERS:

INGREDIENT NAME & BY WEIGHT CAS NUMBER CALCIUM CARBONATE 13.8 471-34-1 67-63-0 TITANIUM DIOXIDE 13463-67-7 2-AMINO-2-METHYL-1-PROPANOL 1.9 124-68-5

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

OCCUPATIONAL EXPOSURE LIMITS, IF AVAILABLE, ARE LISTED IN SECTION 8.

- SECTION 4. FIRST AID MEASURES -

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

EYE CONTACT:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE
UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE
TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION.

INHALATION:
REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IF NOT BREATHING, IF HERATHING, PROVIDED BY TRAINED PERSONNEL, IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. GET MEDICAL ATTENTION, IF UNCONSCIOUS, PLACE IN RECOVERY POSITION AND GET MEDICAL ATTENTION, IN MEDILATELY, MAINTAIN AN OPEN AIRWAY, LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTEAND. IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.

SKIN CONTACT: FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. CLEAN SHOES THOROUGHLY BEFORE

INGESTION:

INGESTION:
WASH OUT MOUTH WITH WATER. REMOVE DENTURES IF ANY. REMOVE VICTIM TO FRESH
AIR AND KEEP AT REST IN A POSITION COMPORTABLE FOR BREATHING. IF MATERIAL
HAS BEEN SWALLOWED AND THE EXPOSED PERSON IS CONSCIOUS, GIVE SMALL
QUANTITIES OF WATER TO DRINK. STOP IF THE EXPOSED PERSON FEELS SICK AS
VOMITING MAY BE DANGEROUS. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO
BY MEDICAL PERSONNEL. IF VOMITING COCURS, THE HEAD SHOULD BE KEPT LOW SO
THAT VOMIT DOES NOT ENTER THE LUNGS. GET MEDICAL ATTENTION. NEVER GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF UNCONSCIOUS, PLACE IN
RECOVERY POSITION AND GET MEDICAL ATTENTION IMMEDIATELY. MAINTAIN AN OPEN
AIRWAY. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SERIOUS EFFECTS MAY BE DELAYED FOLLOWING EXPOSURE.

SKIN CONTACT: CAUSES SKIN IRRITATION.

INGESTION: IRRITATING TO MOUTH, THROAT AND STOMACH.

OVER-EXPOSURE SIGNS/SYMPTOMS:

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN OR IRRITATION WATERING REDNESS

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:

RESPIRATORY TRACT IRRITATION

SKIN CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: IRRITATION

INGESTION: NO SPECIFIC DATA.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.

SPECIFIC TREATMENTS: NO SPECIFIC TREATMENT.

PROTECTION OF FIRST-AIDERS: NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:
EXTREMELY FLAMMABLE AEROSOL. IN A FIRE OR IF HEATED, A PRESSURE INCREASE
WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT
EXPLOSION. GAS MAY ACCUMULATE IN LOW OR CONFIDED AREAS OR TRAVEL A
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK, CAUSING FIRE
OR EXPLOSION. BURSTING AEROSOL CONTAINERS MAY HE PROPELLED FROM A FIRE AT
HIGH SPEED. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:
DECOMPOSITION PRODUCTS MAY INCLUDE THE FOLLOWING MATERIALS:
CARBON DIOXIDE
CARBON MONOXIDE NITROGEN OXIDES METAL OXIDE/OXIDES

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:
FROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF
THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY
PERSONAL RISK OR WITHOUT SUITABLE TRAINING. MOVE CONTAINERS FROM FIRE AREA
IF THIS CAN BE DONE WITHOUT RISK. USE WATER SPRAY TO KEEP FIRE-EXPOSED
CONTAINERS COOL.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.

- SECTION 6. ACCIDENTAL RELEASE MEASURES -

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

FOR NON-EMERGENCY PERSONNEL:

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE
TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNINDCESSARY AND UNPROTECTED
PERSONNEL FROM ENTERING. IN THE CASE OF AEROSOLS BEING RUPTURED, CARE
SHOULD BE TAKEN DUE TO THE RAPID ESCAPE OF THE PRESSURIZED CONTENTS AND
PROPELLANT. IF A LARSE NUMBER OF CONTAINERS ARE RUPTURED, TREAT AS BULK
MATERIAL SPILLAGE ACCORDING TO THE INSTRUCTIONS IN THE CLEAN-UP SECTION.

DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. SHUT OFF ALL LIGHTION
SOURCES. NO FLARES, SMOKING OR FLAMES IN HAZARD AREA. AVOID BREATHING
VAPOR OR MIST. PROVUDE ADEQUATE UNTILIATION. WEAR APPROPRIATE RESPIRATOR
WHEN VENTILATION IS INADEQUATE. PUT ON APPROPRIATE PERSONAL PROTECTIVE
BOULDMENT. EQUIPMENT.

FOR EMERGENCY RESPONDERS:

IF SPECIALISED CLOTHING IS REQUIRED TO DEAL WITH THE SPILLAGE, TAKE NOTE OF ANY INFORMATION IN SECTION 8 ON SUITABLE AND UNSUITABLE MATERIALS. SEE ALSO THE INFORMATION IN "FOR NON-EMERGENCY PERSONNEL".

ENVIRONMENTAL PRECAUTIONS: AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL FOLLUTION (SEWERS, WATERWAYS, SOIL OR

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

SMALL SPILL:
STOP LEAK IF WITHOUT RISK, MOVE CONTAINERS FROM SPILL AREA. USE SPARK-PROOF
TOOLS AND EXPLOSION-PROOF EQUIPMENT. DILUTE WITH WATER AND MOP UP IF
WATER-SOLUBLE. ALTERNATIVELY, OR IF WATER-INSOLUBLE, ABSORB WITH AN INERT
DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE
OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

LARGE SPILL:

LARGE SPILL:
STOP LEAK IF WITHOUT RISK, MOVE CONTAINERS FROM SPILL AREA. USE SPARK-PROOF
TOOLS AND EXPLOSION-PROOF EQUIPMENT. APPROACH RELEASE FROM UPWIND. PREVENT
ENTRY INTO SEWERS, WATER COURSES, BASEMENTS OR CONFINED AREAS. WASH
SPILLAGES INTO AN EFFLUENT TREATMENT PLANT OR PROCEED AS FOLLOWS. CONTAIN
AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIAL E.G. SAND,
EARTH, VERMICULITE OR DIATOMACHOUS EARTH AND PLACE IN CONTAINER FOR
DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). DISPOSE OF VIA
A LICENSED WASTE DISPOSAL CONTRACTOR. CONTAINANTED ABSORBENT MATERIAL MAY
POSE THE SAME HAZARD AS THE SPILLED PRODUCT.

NOTE: SEE SECTION 1 FOR EMERGENCY CONTACT INFORMATION AND SECTION 13 FOR WASTE DISPOSAL

— SECTION 7. HANDLING AND STORAGE —

PRECAUTIONS FOR SAFE HANDLING:

PROTECTIVE MEASURES: PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8).

PRESSURIZED CONTAINER:
PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING
50 DEG. C. DO NOT PIERCE OR BURN, EVEN AFTER USE. AVOID EXPOSURE - OBTAIN
SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS
HAVE BEEN READ AND UNDERSTOOD. DO NOT GET IN EYES OR ON SKIN OR CLOTHING.
DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. AVOID BREATHING GAS. USE ONLY
WITH ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS
INADEQUATE. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER
IGNITION SOURCE. USE EXPLOSION-PROOF ELECTRICAL (VENTILATING, LIGHTING AND
MATERIAL HANDLING) EQUIPMENT. USE ONLY NON-SPARKING TOOLS. EMPTY
CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:
EATING, DRINKING AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THIS
MATERIAL IS HANDLED, STORED AND PROCESSED. WORKERS SHOULD WASH HANDS AND
FRACE BEFORE PATING, DRINKING AND SWOKING. REMOVE CONTAMINATED CLOTHING AND
PROTECTIVE EQUIPMENT BEFORE ENIERING FATING AREAS. SEE ALSO SECTION 8 FOR
ADDITIONAL INFORMATION ON HYGIENE MEASURES.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE AWAY FROM DIRECT SUBLIGHT
IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS
(SEE SECTION 10) AND FOOD AND DRINK. PROTECT FROM SUBLIGHT. STORE LOCKED
UP. ELIMINATE ALL IGNITION SOURCES. USE APPROPRIATE CONTAINMENT TO AVOID
ENVIRONMENTAL CONTAMINATION.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT NAME EXPOSURE LIMITS

OSHA PEL (UNITED STATES, 2/2013). TWA: 5 MG/M3 8 HOURS. CALCIUM CARBONATE

FORM: RESPIRABLE FRACTION

TWA: 15 MG/M3 8 HOURS. FORM: TOTAL DUST

ACGIH TLV (UNITED STATES, 4/2014). TWA: 200 PPM 8 HOURS. STEL: 400 PPM 15 MINUTES. 2 - PROPANOL

NIOSH REL (UNITED STATES, 10/2013). TWA: 400 PPM 10 HOURS. TWA: 980 MG/M3 10 HOURS. STEL: 500 PPM 15 MINUTES. STEL: 1225 MG/M3 15 MINUTES.

OSHA PEL (UNITED STATES, 2/2013). TWA: 400 PPM 8 HOURS. TWA: 980 MG/M3 8 HOURS.

ACGIH TLV (UNITED STATES, 4/2014). TWA: 10 MG/M3 8 HOURS. TITANIUM DIOXIDE

OSHA PEL (UNITED STATES, 2/2013). TWA: 15 MG/M3 8 HOURS. FORM: TOTAL DUST

APPROPRIATE ENGINEERING CONTROLS:
USE ONLY WITH ADDQUATE VENTILATION. IF USER OPERATIONS GENERATE DUST,
FUMES, GAS, VAPOR OR MIST, USE PROCESS ENCLOSURES, LOCAL EXHAUST
VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO
AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS. THE
BUSINEERING CONTROLS ALSO NEED TO KEEP GAS, VAPOR OR DUST CONCENTRATIONS
BELOW ANY LOWER EXPLOSIVE LIMITS. USE EXPLOSION-PROOF VENTILATION
EQUIPMENT.

ENVIRONMENTAL EXPOSURE CONTROLS:
EMISSIONS FROM VENTILATION OR WORK PROCESS EQUIPMENT SHOULD BE CHECKED TO
ENSURE THEY COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION
LEGISLATION. IN SOME CASES, FUME SCRUBBERS, FILTERS OR ENGINEERING
MODIFICATIONS TO THE PROCESS EQUIPMENT WILL BE NECESSARY TO REDUCE
EMISSIONS TO ACCEPTABLE LEVELS.

INDIVIDUAL PROTECTION MEASURES:

HYGIENE MEASURES:
WASH HANDS, FORFARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS,
BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING
PERIOD. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY
CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE
THAT EYEMASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

EYE/FACE PROTECTION:
SAFETY EYEMEAR COMPLYING WITH AN APPROVED STANDARD SHOULD BE USED WHEN A RISK ASSESSMENT INDICATES THIS IS NECESSARY TO AVOID EXPOSURE TO LIQUID SPLASHES, MISTS, GASES OR DUSTS. IF CONTACT IS POSSIBLE, THE FOLLOWING PROTECTION SHOULD BE WORN, UNLESS THE ASSESSMENT INDICATES A HIGHER DEGREE OF PROTECTION: CHEMICAL SPLASH GOOGLES.

SKIN PROTECTION:

HAND PROTECTION:

HAND PROTECTION:

CHEMICAL-RESISTANT, IMPERVIOUS GLOVES COMPLYING WITH AN APPROVED STANDARD SHOULD BE WORN AT ALL TIMES WHEN HANDLING CHEMICAL PRODUCTS IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY. CONSIDERING THE PARAMETERS SPECIFIED BY THE GLOVE MANUFACTURER, CHECK DURING USE THAT THE GLOVES ARE STILL RETAINING THEIR PROTECTIVE PROPERTIES. IT SHOULD BE NOTED THAT THE TIME TO BREAKTHROUGH FOR ANY GLOVE MATERIAL MAY BE DIFFERENT FOR DIFFERENT GLOVE MANUFACTURERS. IN THE CASE OF MIXTURES, CONSISTING OF SEVERAL SUBSTANCES, THE PROTECTION TIME OF THE GLOVES CANNOT BE ACCURATELY ESTIMATED.

BODY PROTECTION:

PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE PERSONAL PROTECTIVE EQUIPMENT FOR THE BLDY SHOULD BE SELECTED ASSESS ON TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT. WHEN THERE IS A RISK OF ICRITICAL FROM STATIC ELECTRICITY, WEAR ANTISTATIC PROTECTIVE CLOTHING. FOR THE GREATEST PROTECTION FROM STATIC DISCHARGES, CLOTHING SHOULD INCLUDE

ANTI-STATIC OVERALLS, BOOTS AND GLOVES.

OTHER SKIN PROTECTION:
APPROPRIATE FOOTWEAR AND ANY ADDITIONAL SKIN PROTECTION MEASURES SHOULD
BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND
SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

RESPIRATORY PROTECTION:
USE A PROPERLY FITTED, AIR-PURIFYING OR AIR-FED RESPIRATOR COMPLYING WITH
AN APPROVED STANDARD IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY.
RESPIRATOR SELECTION MUST BE BASED ON KNOWN OR ANTICIPATED EXPOSURE LEVELS,
THE HAZARDS OF THE PRODUCT AND THE SAFE WORKING LIMITS OF THE SELECTED

- SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES -

APPEARANCE:

PHYSICAL STATE: LIQUID. COLOR: NOT AVAILABLE.

ODOR: NOT AVAILABLE.

ODOR THRESHOLD: NOT AVAILABLE.

MELTING POINT: NOT AVAILABLE. BOILING POINT: NOT AVAILABLE.

FLASH POINT:

CLOSED CUP: -29 DEG. C (-20.2 DEG. F) [PENSKY-MARTENS CLOSED CUP]

EVAPORATION RATE: 1.44 (BUTYL ACETATE = 1) FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

LOWER AND UPPER EXPLOSIVE (FLAMMABLE) LIMITS:

VAPOR PRESSURE: 13.5 KPA (101.325 MMHg) [AT 20 DEG. C]

VAPOR DENSITY: 1 [AIR = 1] RELATIVE DENSITY: 0.93

SOLUBILITY: NOT AVAILABLE.

PARTITION COEFFICIENT N-OCTANOL/WATER: NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE. DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY:

KINEMATIC (ROOM TEMPERATURE): >0.07 CM2/S (>7 CST)
KINEMATIC (40 DEG. C (104 DEG. F)): >0.07 CM2/S (>7 CST)

AEROSOL PRODUCT: TYPE OF AEROSOL: SPRAY HEAT OF COMBUSTION: 0.00001257 KJ/G

- SECTION 10. STABILITY AND REACTIVITY -

REACTIVITY:
NO SPECIFIC TEST DATA RELATED TO REACTIVITY AVAILABLE FOR THIS PRODUCT OR ITS INGREDIENTS.

CHEMICAL STABILITY: THE PRODUCT IS STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS:

FUSDIBILITY OF HAZARDOUS REACTIONS: UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS REACTIONS WILL NOT OCCUR.

CONDITIONS TO AVOID: AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME).

INCOMPATIBLE MATERIALS: NO SPECIFIC DATA.

HAZARDOUS DECOMPOSITION PRODUCTS: UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

- SECTION 11. TOXICOLOGICAL INFORMATION -

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

EXPOSURE RESULT SPECIES DOSE PRODUCT/INGREDIENT NAME CALCIUM CARBONATE LD50 ORAL RAT 6450 MG/KG 12800 MG/KG 5000 MG/KG LD50 DERMAL LD50 CRAL RABBIT 2-PROPANOL RAT

2900 MG/KG 2-AMINO-2-METHYL-1-PROPANOL LD50 ORAL RAT

IRRITATION/CORROSION:

RESULT SPECIES SCORE EXPOSURE OBSERVATION PRODUCI INGREDIENT

NAME

24 HOURS 750 MICROGRAMS RABBIT SEVERE IRRITANT CARBONATE

IRRITANT

RABBIT

24 HOURS 500 MILLIGRAMS SKIN:

EYES: 2-PROPANOL RABBIT 24 HOURS MODERATE 100 MILLIGRAMS IRRITANT

EYES: MODERATE IRRITANT RABBIT 10 MILLIGRAMS

EYES: SEVERE IRRITANT RABBIT 100 MILLIGRAMS

SKIN: RABBIT 500 MILLIGRAMS

SKIN: TITANIUM HUMAN 72 HOURS DIOXIDE

MILD IRRITANT 300 MICROGRAMS INTERMITTENT

SENSITIZATION: NOT AVAILABLE. MUTAGENICITY: NOT AVAILABLE. CARCINOGENICITY: NOT AVAILABLE.

MILD IRRITANT

CLASSIFICATION:

PRODUCT/INGREDIENT NAME OSHA IARC NTP

2-PROPANOL

REPRODUCTIVE TOXICITY: NOT AVAILABLE.

TITANIUM DIOXIDE 2B

TERATOGENICITY: NOT AVAILABLE.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):

CATEGORY ROUTE OF EXPOSURE TARGET ORGANS RESPIRATORY TRACT 2 - PROPANOL NOT APPLICABLE.

CATEGORY 3

IRRITATION AND NARCOTIC EFFECTS

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):

TARGET ORGANS CATEGORY ROUTE OF EXPOSURE 2-PROPANOL CATEGORY 2 NOT DETERMINED NOT DETERMINED

ASPIRATION HAZARD: NOT AVAILABLE.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: NOT AVAILABLE.

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

INHALATION:

EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SERIOUS EFFECTS MAY BE DELAYED FOLLOWING EXPOSURE.

SKIN CONTACT: CAUSES SKIN IRRITATION.

INGESTION: IRRITATING TO MOUTH, THROAT AND STOMACH.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

EYE CONTACT:
ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:
PAIN OR IRRITATION
WATERING
REDNESS

INHALATION: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: RESPIRATORY TRACT IRRITATION

COUGHING

SKIN CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: IRRITATION

INGESTION: NO SPECIFIC DATA.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:

SHORT TERM EXPOSURE: POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE. POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

LONG TERM EXPOSURE:
POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE.
POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

POTENTIAL CHRONIC HEALTH EFFECTS: NOT AVAILABLE.

GENERAL: MAY CAUSE DAMAGE TO ORGANS THROUGH PROLINGED OR REPEATED EXPOSURE.

CARCINOGENICITY: SUSPECTED OF CAUSING CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

DEVELOPMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

FERTILITY EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

NUMERICAL MEASURES OF TOXICITY:

ACTUTE TOXICITY ESTIMATES:

ROUTE ATE VALUE 30720.3 MG/KG ORAL

	SECTION 12. ECOLOGICAL	INFORMATION	
TOXICITY:			
PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
CALCIUM CARBONATE	ACUTE LC50: >56000 PPM FRESH WATER	FISH - GAMBUSIA AFFINIS - ADULT	96 HOURS
	CHRONIC NOEC: 61 MG/G FRESH WATER	FISH - CNCORHYNCHUS MYKISS - JUVENILE (FLEDGLING, HATCHLIN WEANLING)	
2-PROPANOL	ACUTE 1C50: 1400000 (MICRO)G/L MARINE WATER	CRUSTACEANS - CRANGON CRANGON	48 HOURS
	ACUTE LC50: 4200 MG/L FRESH WATER	FISH - RASBORA HETEROMORPHA	96 HOURS
TITANIUM DIOXIDE	ACUTE LC50: >1000000 (MICRO)G/L MARINE WATER		96 HOURS

PERSISTENCE AND DEGRADABILITY:

PRODUCT/INGREDIENT NAME AQUATIC HALF-LIFE PHOTOLYSIS BIODEGRADABILITY 2-PROPANOL READILY

BIOACCUMULATIVE POTENTIAL:

PRODUCT/INGREDIENT NAME LOGPOW BCF POTENTIAL TITANIUM DIOXIDE 352 LOW 2-AMINO-2-METHYL-1-PROPANOL 320 LOW

MOBILITY IN SOIL:

SOIL/WATER PARTITION COEFFICIENT (KOC): NOT AVAILABLE.

OTHER ADVERSE EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

- SECTION 13. DISPOSAL CONSIDERATIONS -

DISPOSAL METHODS:
THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE.
DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BY-PRODUCTS SHOULD AT ALL
TIMES COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE
DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS.
DISPOSE OF SURPLUS AND NON-RECYCLABLE PRODUCTS VIA A LICENSED WASTE
DISPOSAL CONTRACTOR. WASTE SHOULD NOT BE DISPOSED OF UNITERITED TO THE
SEMER UNLESS FULLY COMPLIANT WITH THE REQUIREMENTS OF ALL AUTHORITIES WITH
JURISDICTION, WASTE PACKAGING SHOULD BE RECYCLED. INCIDERATION OR LANDFILL
SHOULD ONLY BE CONSIDERED WHEN RECYCLING IS NOT FEASIBLE. THIS MATERIAL
AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. EMPTY CONTAINERS OR
LINERS MAY RETAIN SOME PRODUCT RESIDUES. DO NOT FUNCTURE OR INCIDERATE
CONTAINER. DISPOSAL METHODS: CONTAINER.

SECTION	14. TRANSPORT	INFORMATION —	
	DOT CLASSIFICATION	TDG CLASSIFICATION	MEXICO CLASSIFICATION
UN NUMBER	UN1950	UN1950	UN1950
UN PROPER SHIPPING NAME	AEROSOLS	AEROSOLS	AEROSOLS
TRANSPORT HAZARD CLASS(ES)	2.1 2.1	2.1	
	FLAMMABLE GAS, CLASS/DIVISI 2.1	CLASS 2.1, ON FLAMMABLE GASES	CLASS 2.1, FLAMMABLE GASES
PACKING GROUP			
ENVIRONMENTAL HAZARDS	NO.	NO.	NO.
ADDITIONAL INFORMATION	SPECIAL PROVISIONS: LIMITED QUANTITY	SPECIAL PROVISIONS: LIMITED QUANTITY	SPECIAL PROVISIONS: (ERG#126)
	IATA	IM	DG
UN NUMBER	UN1950	UN	1950
UN PROPER SHIPPING NAME	AEROSOLS, F	LAMMABLE AER	OSOLS
TRANSPORT HAZARD CLASS(ES)	2.1	2.	1
	CLASS 2.1, F GASES		2.1 - FLAMMABLE SES
PACKING GROUP			
ENVIRONMENTAL HAZARDS	NO.	NO	
ADDITIONAL INFORMATION	SPECIAL PROV LIMITED QU	E YTITVAL	ENCY SCHEDULES MS): ED QUANTITY, D, S-U

SPECIAL PRECAUTIONS FOR USER:
MULTI-MODAL SHIPPING DESCRIPTIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES
MULTI-MODAL SHIPPING DESCRIPTION
FOR A PARTICULAR MODE OF TRANSPORT (SEA, AIR, ETC.), DOES NOT INDICATE THAT
THE PRODUCT IS PACKAGED SUITABLY FOR THAT MODE OF TRANSPORT. ALL PACKAGING
MUST BE REFULENDED FOR SUITABLITY PRIOR TO SHIPMENT, AND COMPLIANCE WITH
THE APPLICABLE REGULATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON
OFFERRING THE PRODUCT FOR TRANSPORT. PRODUCT LOADING AND UNLOADING DANGEROUS
GOODS MUST BE TRAINED ON ALL OF THE RISKS DERIVING FROM THE SUBSTANCES AND
ON ALL ACTIONS IN CASE OF EMERGENCY SITUATIONS. SPECIAL PRECAUTIONS FOR USER:

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

- SECTION 15. REGULATORY INFORMATION -

U.S. FEDERAL REGULATIONS:

STATE REGULATIONS:

CALIFORNIA PROP. 65:

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

SECTION 16. OTHER INFORMATION —

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.): HEALTH

FLAMMABILITY PHYSICAL HAZARDS 0

CAUTTON:

CAUTION:
HMIS(R*) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING
MINIMAL HAZARDS OR RISKS, AND 4 REFRESENTING SIGNIFICANT HAZARDS OR RISKS
ALTHOUGH HMIS(R*) RATINGS ARE NOT REQUIRED ON SDSS UNDER 29 CFR 1910.1200,
THE PREPARER MAY CHOOSE TO PROVIDE THEM. HMIS(R*) RATINGS ARE TO BE USED
WITH A FULLY IMPLEMENTED HMIS(R*) PROGRAM. HMIS(R*) IS A RESISTERED MARK
OF THE NATIONAL PAINT'& COATINGS ASSOCIATION (NPCA). HMIS(R*)
MAY BE FURCHASED EXCLUSIVELY FROM J. J. KELLER (800) 327-6868.

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE PPE CODE FOR THIS MATERIAL.

NOTICE TO READER:

NOTICE TO READER:

IT IS RECOMMENDED THAT EACH CUSTOMER OR RECIPIENT OF THIS SAFETY DATA SHEET (SDS) STUDY IT CAREFULLY AND CONSULT RESOURCES, AS NECESSARY OR APPROPRIATE, TO BECOME AWARE OF AND UNDERSTAND THE DATA CONTAINED IN THIS SUS AND ANY HAZARDS ASSOCIATED WITH THE PRODUCT. THIS INFORMATION IS PROVIDED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE HEREIN. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN. THE INFORMATION PRESENTED HERE APPLIES ONLY TO THE PRODUCT AS SHIPPED. THE ADDITION OF ANY MATERIAL CAN CHANGE THE COMPOSITION, HAZARDS AND RISKS OF THE PRODUCT. REQULATIONS REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER BETWEEN VARIOUS LOCATIONS AND JURISDICTIONS. THE CUSTOMER/BUYER/USER IS RESPONSIBLE TO ENSURE THAT HIS ACTIVITIES COMPLY WITH ALL COUNTRY, FEDERAL, STATE, PROVINCIAL OR LOCAL LAWS. THE CONDITIONS FOR USE OF THE PRODUCT ARE NOT UNDER THE CONTROL OF THE MANUFACTURER; THE CUSTOMER/BUYER/USER IS RESPONSIBLE TO DETERMINE THE CONDITIONS NECESSARY FOR THE SAFE USE OF THIS PRODUCT. THE CUSTOMER/BUYER/USER SHOULD NOT USE THE PRODUCT FOR ANY PURPOSE OTHER THAN THE PURPOSE SHOWN IN THE APPLICABLE SECTION OF THIS SDS WITHOUT FIRST REFERRING TO THE SUPPLIER AND OBTAINING WRITTEN HANDLING INSTRUCTIONS. DUE TO THE PROJEFFANTION OF SOURCES FOR INFORMATION SUCH AS MANUFACTURER SPECIFIC SDS, THE MANUFACTURER CANNOT BE RESPONSIBLE FOR SDSS OBTAINED FROM ANY OTHER SOURCE.

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