

PREPARATION DATE SUPERSEDES
03-06-01 04-06-00

SECTION 1 CHEMICAL IDENTIFICATION

C.I. NAME : NA, PRODUCT IS A SPECIALTY COLOR MIXTURE
C.I. NUMBER : NA, MIXTURE CONTAINS MULTIPLE COLORS
CAS NUMBER : NA, MATERIAL IS BASED ON A PROPRIETARY BLEND
CHEMICAL FAMILY : BLEND CONTAINING KETONE AMINE
PHYSICAL FORM : POWDER

SECTION 2 INGREDIENTS HAZARDOUS UNDER OSHA 29 CFR PART 1910.1200 APPENDIX A & B

COMPONENT NAME	CAS NUMBER	PEL	TLV	%
PROPRIETARY YELLOW DYE*	PROPRIETARY	NE	NE	100

*READ & UNDERSTAND SECTIONS 3, 8 & 11 FOR HEALTH & SAFETY INFORMATION. WEAR ALL PROTECTIVE EQUIPMENT AND CLOTHING DESCRIBED IN SECTION 8.

SECTION 3 HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

HMS RATINGS

HEALTH * 2
FLAMMABILITY 1
REACTIVITY 0
PROTECTION F, N

* DENOTES DELAYED/CHRONIC HEALTH HAZARD

EMERGENCY OVERVIEW:

POSSIBLE EXPOSURES: EYES, SKIN, BREATHING DUSTS, ACCIDENTAL SWALLOWING

POSSIBLE HEALTH EFFECTS:

EYE CONTACT: CAN SEVERELY IRRITATE. PROLONGED CONTACT CAN CAUSE BURNS AND PERMANENT INJURY. * 1
SKIN CONTACT: CAN SEVERELY IRRITATE. * 1
BREATHING DUST: CAN SEVERELY IRRITATE THE NOSE, THROAT AND LUNGS. * 1
SWALLOWING: CAN CAUSE SEVERE IRRITATION TO THE STOMACH. CAN CAUSE ADVERSE LIVER EFFECTS. * 1

* EXPECTATIONS BASED 100% ON PRODUCT.

SENSITIZATION: NK

TARGET ORGANS: EYES, SKIN, NOSE, THROAT, LUNGS, STOMACH, LIVER 1

CANCER INFORMATION:

PRODUCT AND COMPONENTS NOT KNOWN TO US TO BE CARCINOGENS
NTP: NK
IARC: NK
OSHA: NR

ADDITIONAL INFORMATION: IN A RECENT FEEDING STUDY, GROUPS OF RATS WERE ADMINISTERED 0, 1000 AND 2000 PPM OF THE NITRATE SALT OF A COMPONENT OF THIS PRODUCT. ALTERED ENZYME LEVELS AND HYPERPLASTIC NODULES OF THE LIVER WERE OBSERVED AFTER 9 MONTHS. 1

1 PRECAUTIONS:

TO HELP PROTECT AGAINST EXPECTED OR UNEXPECTED IRRITATIONS OR REACTIONS, WEAR ALL PROPERLY SELECTED PROTECTIVE EQUIPMENT AND CLOTHING AS SHOWN IN THE EXPOSURE CONTROLS AND PERSONAL PROTECTION SECTION OF THIS MSDS. WASH HANDS AND FACE AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING RESTROOM FACILITIES. AFTER EACH SHIFT, CLEAN ALL PROTECTIVE EQUIPMENT, WASH ALL WORK CLOTHES, AND SHOWER. SEE SECTION 11, TOXICOLOGY INFORMATION.

UNUSUAL HAZARDS: IF MIXED WITH AIR IN SUFFICIENT AMOUNTS & PROPORTIONS, ORGANIC DUSTS CAN FORM FLAMMABLE OR EXPLOSIVE DUST/AIR MIXTURES. AS PRECAUTIONS, KEEP AREAS CLEAN AND AVOID DUST BUILD-UP. HAVE PLENTY OF GOOD VENTILATION. AVOID CREATING VERY DUSTY CONDITIONS. WHEN MIXING, POURING OR PROCESSING BULK AMOUNTS OF POWDERS, GROUND ALL CONTAINERS AND AVOID STATIC CHARGES, SPARKS, SMOKING, OPEN FLAMES, OR OTHER POSSIBLE CAUSES OF FIRE OR EXPLOSION.

SECTION 4 FIRST AID INSTRUCTIONS

EYE CONTACT: IMMEDIATELY RINSE WITH PLENTY OF CLEAN FLOWING WATER FOR AT LEAST 20 MINUTES, HOLDING EYELIDS OPEN TO RINSE COMPLETELY. CALL A DOCTOR, AND GET EMERGENCY MEDICAL HELP QUICKLY, AS A PRECAUTION.

SKIN CONTACT: REMOVE AFFECTED CLOTHING. WASH AFFECTED SKIN AREA WITH PLENTY OF SOAP AND WATER. RINSE WITH PLENTY OF WATER. WASH ALL WORK CLOTHES BEFORE WEARING AGAIN. IF ANY REDNESS, SWELLING, ITCHING, OR PAIN OF THE SKIN STARTS, SEE A DOCTOR QUICKLY.

BREATHING PRODUCT DUST: MOVE PERSON TO FRESH AIR. IF PERSON IS HAVING DIFFICULTY BREATHING, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET EMERGENCY MEDICAL HELP QUICKLY. CALL 911 IF AVAILABLE IN YOUR AREA, OR OTHER MEDICAL EMERGENCY NUMBER.

SWALLOWING OF PRODUCT: IF SWALLOWED, CALL A DOCTOR AND GET EMERGENCY MEDICAL HELP QUICKLY.

SECTION 5 FIRE FIGHTING INSTRUCTIONS

FLASH POINT : NA
TYPES OF EXTINGUISHERS : WATER FOG, FOAM OR DRY CHEMICAL
FIREFIGHTING DIRECTIONS: WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POSSIBLY TOXIC FUMES. WEAR FULL FIRE-PROTECTIVE CLOTHING.

SECTION 6 ACCIDENTAL SPILL OR RELEASES

WEAR A NIOSH APPROVED DUST RESPIRATOR, WITH ALL PROTECTIVE CLOTHING AND EQUIPMENT AS DIRECTED IN SECTION 8 OF THIS MSDS.

CONTAIN AND CLEAN UP SPILL IMMEDIATELY. SWEEP POWDERS CAREFULLY, USING AN ABSORBENT (SWEEPING COMPOUND) TO KEEP DOWN THE DUST IN THE AREA. SCOOP MATERIAL & ABSORBENT INTO DISPOSAL DRUM, AND SEAL.

RCRA STATUS: SEE REGULATORY INFORMATION, SECTION 15.

ENVIRONMENTAL PROTECTION: PREVENT FROM ENTERING FLOOR DRAINS OR SEWERS. DO NOT RELEASE TO SEWER WITHOUT PROPER GOVERNMENT PERMISSION AT ALL LEVELS.

SEE SECTION 13, DISPOSAL CONSIDERATIONS/ENVIRONMENTAL PROTECTION PROCEDURES FOR ANY ADDITIONAL INFORMATION.

SECTION 7 HANDLING AND STORAGE

PROTECT PRODUCT FROM MOISTURE, STORE IN COOL, DRY PLACE UNDER LOW RELATIVE HUMIDITY, AWAY FROM EXCESSIVE HEAT. STORE IN ORIGINAL OR EQUIVALENT WATER-PROOF CONTAINERS. RESEAL CONTAINERS TIGHTLY AFTER EACH USE. KEEP OUT OF DIRECT SUNLIGHT.

SHELF LIFE: INDEFINITE WHEN STORED CAREFULLY AS INSTRUCTED ABOVE.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

NOTE: WHEN SELECTING PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING, FOLLOW ALL MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS THAT APPLY TO YOUR SPECIFIC OPERATIONS AND PROCESSING CONDITIONS. TAKE INTO CONSIDERATION ALL CONDITIONS AND ALL CHEMICALS TO BE HANDLED OR PROCESSED

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL SAFETY GOGGLES. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH CHEMICALS.

SKIN PROTECTION: WEAR CHEMICALLY RESISTANT RUBBER GLOVES, SELECTED WITH YOUR SPECIFIC PROCESSING CONDITIONS AND CHEMICALS TO BE HANDLED IN MIND. WEAR COVERALLS AND BOOTS TO MINIMIZE SKIN CONTACT. AS PRECAUTIONS, WASH HANDS & FACE WITH MILD SOAP & WATER BEFORE EATING, DRINKING, SMOKING, OR USING RESTROOM. AFTER EACH SHIFT, CLEAN ALL PROTECTIVE EQUIPMENT, WASH WORK CLOTHES, AND SHOWER.

LUNG, THROAT & NASAL PROTECTION: WEAR NIOSH APPROVED DUST RESPIRATOR FOR YOUR PARTICULAR OPERATION AND MATERIALS BEING HANDLED.

OTHER PROTECTION: EYE WASH FOUNTAINS & DRENCH SHOWERS SHOULD BE LOCATED WITHIN 100 FEET OR A 10 SECOND WALK OF THE WORK AREA PER ANSI Z358.1-1990

VENTILATION: LOCAL EXHAUST IS RECOMMENDED.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION : YELLOW POWDER; NO ODOR
DECOMP. TEMP. : NE
WATER SOLUBILITY : TEST IN YOUR SPECIFIC APPLICATION
PH : NE
SPECIFIC GRAVITY : NE
% TOTAL VOC'S : 0
% NON-VOLATILES : 100
% WATER : 0

SECTION 10 STABILITY AND REACTIVITY

STABILITY : STABLE
CONDITIONS TO AVOID : EXCESSIVE DUSTING
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBLE MATERIALS : OXIDIZING & REDUCING AGENTS MAY DESTROY COLOR
HAZARDOUS DECOMPOSITION PRODUCTS: BURNING CAN PRODUCE OXIDES OF CARBON
AND NITROGEN
CORROSIVE PROPERTIES : NOT CORROSIVE
OXIDIZER PROPERTIES : NOT AN OXIDIZER

SECTION 11 TOXICOLOGY INFORMATION

ORAL LD50 (RAT): NE
DERMAL LD50 (RAT): NE
INHALATION LC50 (RAT): NE

EYE EFFECTS (RABBIT): NE 1
SKIN EFFECTS (RABBIT): NE 1
BREATHING EFFECTS: NE. TAKE PRECAUTIONS. 1

1) ALTHOUGH NO ANIMAL TOXICITY DATA IS CURRENTLY AVAILABLE, AS A PRECAUTION IT IS RECOMMENDED THAT ALL WORKERS WEAR ALL OF THE PROTECTIVE CLOTHING AND EQUIPMENT AS SHOWN IN SECTION 8.

GENERAL PRECAUTIONS: ALWAYS PRACTICE GOOD INDUSTRIAL HYGIENE, HANDLE WITH CARE, AVOID PERSONAL CONTACT. DO NOT GET INTO EYES OR ON SKIN, DO NOT BREATHE DUST OF PRODUCT, DO NOT SWALLOW. WASH HANDS WITH SOAP AND WATER, AND RINSE WELL AFTER HANDLING PRODUCT. SHOWER AFTER EACH SHIFT. WASH ALL WORK CLOTHING AND COMPLETELY CLEAN ALL PROTECTIVE EQUIPMENT AFTER EACH SHIFT. SEE SECTION 2.

MUTAGENICITY: NK

ADDITIONAL INFORMATION: SEE SECTION 3, HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW.

MEDICAL CONDITIONS WORSENER BY EXPOSURE: PERSONS WITH BREATHING AND LUNG PROBLEMS CAN BE AFFECTED BY BREATHING IN ANY TYPE OF DUSTY MATERIAL. PERSONS WITH ASTHMA, ALLERGIES, OR OTHER BREATHING-RELATED PROBLEMS SHOULD STAY AWAY FROM, NOT HANDLE, AND NOT BE EXPOSED TO ANY DUSTY PRODUCTS OR DUSTY CONDITIONS AS A PRECAUTIONARY MEASURE.

SECTION 12 ECOLOGICAL DATA

BOD 5: NE
COD: NE
FISH TOXICITY: NE
SEED TOXICITY: NE
CWA TOXIC POLLUTANTS: NK
BIOLOGICAL ELIMINATION: NE

SECTION 13 DISPOSAL CONSIDERATIONS/ENVIRONMENTAL PROTECTION PROCEDURES

DISPOSAL METHODS:

IT IS RECOMMENDED THAT YOU SELECT AN ALTERNATIVE BELOW ACCORDING TO THE FOLLOWING ORDER OF PREFERENCE, DEPENDING ON ENVIRONMENTAL IMPACT:

- 1) RECYCLE OR REWORK MATERIAL IF AT ALL POSSIBLE
- 2) INCINERATE MATERIAL AT AN APPROVED FACILITY
- 3) TREAT AT AN ACCEPTABLE WASTE TREATMENT FACILITY, OR MUNICIPAL WASTE TREATMENT PLANT AFTER PROPER TESTING & APPROVAL WASTE SAMPLES.

IF DISPOSED OF IN IT'S ORIGINAL UNUSED FORM, THIS MATERIAL SHOULD BE

TREATED, AND DISPOSED OF AT AN APPROVED SITE OR FACILITY, IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS. YOU MUST CONTACT THE PROPER GOVERNMENT AGENCIES FOR ADDITIONAL DIRECTIONS. ALL WASTE MATERIAL & WASTE WATER SHOULD BE DISPOSED OF CORRECTLY, UNDER ALL FEDERAL, STATE, CITY & COUNTY LAWS.

RCRA STATUS: SEE SECTION 15, REGULATORY INFORMATION

DO NOT RELEASE DYE OR DYE SOLUTION INTO ANY WATERWAYS OR SEWER SYSTEMS WITHOUT PROPER GOVERNMENT PERMISSION AT ALL LEVELS.

CONTAINER REUSE: AN "EMPTY" CONTAINER CAN CONTAIN PRODUCT RESIDUE, AND SHOULD NOT BE REUSED. IF NOT PROFESSIONALLY CLEANED & RECONDITIONED, CRUSHING OR OTHER MEANS IS RECOMMENDED TO PREVENT UNAUTHORIZED REUSE.

SECTION 14 TRANSPORT INFORMATION

DOT STATUS (HIGHWAY AND RAIL): NR

IATA STATUS (AIR): NR

SECTION 15 REGULATORY INFORMATION

AICS (AUSTRALIA): COMPONENTS LISTED

CAL. PROP. 65: CONTAINS TRACES OF THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY: CADMIUM, CHROMIUM*, LEAD AND MERCURY.

CERCLA: NH

CLEAN AIR ACT:

TITLE III-HAP'S: NK

TITLE V-VOC'S: SEE SECTION 9

TITLE VI-ODC'S: NOT MANUFACTURED WITH NOR CONTAINING CLASS I OR II ODC'S
CONEG-TYPICAL METALS PRESENT IN PPM:

CADMIUM NE

CHROMIUM NE (TOTAL INCLUDING HEXAVALENT CR+6)

LEAD NE

MERCURY NE

DSL (CANADA): COMPONENTS LISTED

ECL (KOREA): NOT ALL COMPONENTS LISTED

EINECS (EUROPE): NOT ALL COMPONENTS LISTED

ENCS (JAPAN): NOT ALL COMPONENTS LISTED

FDA STATUS: NL

OTHER TYPICAL DATA IN PPM: NK

RCRA: NOT HAZARDOUS IN IT'S PURCHASED FORM. HOWEVER, UNDER RCRA, IT IS THE PRODUCT USER'S RESPONSIBILITY TO DETERMINE AT TIME OF DISPOSAL IF ANY MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT IS A HAZARDOUS WASTE.

SARA 311/312: IMMEDIATE/ACUTE HEALTH HAZARD : YES
DELAYED/CHRONIC HEALTH HAZARD : YES
FIRE HAZARD : NO
SUDDEN RELEASE OF PRESSURE HAZARD: NO
REACTIVITY HAZARD : NO

SARA 313: NR

TSCA: COMPONENTS LISTED

USDA: NL

WHMIS: NC

SECTION 16 OTHER INFORMATION

REVISION DATE: 03-06-01

REASON FOR REVISION: GENERAL REVIEW

CODE KEY

NA = NOT APPLICABLE TO THIS MATERIAL

NC = NOT CERTAIN, UNDETERMINED

ND = NO DATA IS CURRENTLY AVAILABLE

NE = NOT ESTABLISHED, NO TESTING IS PLANNED

NH = NOT HAZARDOUS UNDER CITED REGULATIONS

NK = NONE KNOWN, NO INFORMATION FOUND IN DATA SEARCHS

NL = NOT LISTED OR APPROVED UNDER THESE REGULATIONS

NR = NOT REGULATED OR REPORTABLE

NIOSH = NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED

HEREIN. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE
OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200, AND SUPERSEDES ANY
PREVIOUS INFORMATION. PREVIOUSLY DATED SHEETS ARE INVALID & UNAPPLICABLE.