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<<<<<<<<<< MATERIAL SAFETY DATA SHEET >>>>>>>>>>

 PREPARATION DATE SUPERSEDES
 11-14-00 04-13-00

SECTION 1 CHEMICAL IDENTIFICATION

C.I. NAME : SOLVENT ORANGE 2
 C.I. NUMBER : 12100
 CAS NUMBER : 2646-17-5
 CHEMICAL FAMILY: MONOAZO DYE
 PHYSICAL FORM : POWDER

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

COMPONENT NAME	CAS NUMBER	PEL	TLV	%
C.I. SOLVENT ORANGE 2*	2646-17-5	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

HMIS RATINGS

HEALTH * 3
 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: NO ANIMAL TOXICITY DATA IS CURRENTLY AVAILABLE, HOWEVER, THIS MATERIAL IS EXPECTED TO IRRITATE THE EYES. 1
 SKIN CONTACT: NO ANIMAL TOXICITY DATA IS CURRENTLY AVAILABLE, HOWEVER, THIS MATERIAL IS EXPECTED TO IRRITATE THE SKIN. 1
 BREATHING DUST: NO ANIMAL TOXICITY DATA IS CURRENTLY AVAILABLE, HOWEVER, THIS MATERIAL IS EXPECTED TO IRRITATE THE NOSE, THROAT AND LUNGS. 1
 SWALLOWING: BASED ON "CANCER INFORMATION", THIS MATERIAL CAN BE HARMFUL IF SWALLOWED CAUSING DAMAGE TO THE LIVER AND INTESTINES. 1

SENSITIZATION: NK

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

CANCER INFORMATION:

C.I. SOLVENT ORANGE 2 IS AN ANIMAL CARCINOGEN. ITS PRIME TARGET IS THE LIVER AND, IF ADMINISTERED THROUGH SWALLOWING, THE INTESTINES.

NTP: NK

IARC: GROUP 2B - ANIMAL CARCINOGEN, POSSIBLY CARCINOGENIC TO HUMANS

OSHA: SEE ABOVE

1 PRECAUTIONS:

PROTECT YOURSELF FROM EITHER EXPECTED OR UNEXPECTED IRRITATION, OR ANY ALLERGIC REACTIONS. WORKERS SHOULD WEAR ALL PROPERLY SELECTED PROTECTIVE EQUIPMENT AND CLOTHING AS INSTRUCTED IN SECTION 8 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. READ SECTIONS 8 & 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

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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 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, AS A PRECAUTION.

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, GIVE PERSON SEVERAL GLASSES OF WATER AND FORCE VOMITING. NEVER GIVE ANY FLUIDS OR FORCE VOMITING IF THE PERSON IS UNCONSCIOUS, OR IS HAVING CONVULSIONS, OR HAS NO GAG REFLEX. CONTACT A DOCTOR QUICKLY TO GET MEDICAL HELP, CALL 911, OR OTHER MEDICAL EMERGENCY SERVICES AVAILABLE IN YOUR AREA.

SECTION 5 FIRE FIGHTING INSTRUCTIONS

FLASH POINT : NA
TYPES OF EXTINGUISHERS : ALL METHODS ACCEPTABLE
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, ALONG WITH ALL PROTECTIVE CLOTHING AND EQUIPMENT AS DESCRIBED IN SECTION 8 OF THIS MSDS. READ SECTION 8.

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

RCRA STATUS: SEE REGULATORY INFORMATION, SECTION 15.

ENVIRONMENTAL PROTECTION: PREVENT FROM ENTERING FLOOR DRAINS OR SEWERS. DO NOT RELEASE TO SEWERS, STREAMS, RIVERS NOR TO ANY OTHER BODIES OF WATER WITHOUT PROPER PERMISSION FROM GOVERNMENT AUTHORITIES AT ALL LEVELS IN YOUR AREA. CHECK SECTION 13, "DISPOSAL CONSIDERATIONS/ENVIRONMENTAL PROTECTION PROCEDURES" FOR MORE 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. KEEP AWAY FROM FOOD AND BEVERAGE.

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 OF THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS THAT APPLY TO YOUR SPECIFIC OPERATION AND PROCESSING CONDITIONS. TAKE INTO CONSIDERATION ALL WORKER 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. CLEAN RESPIRATOR WITH SOAP AND WATER AFTER EACH SHIFT.

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.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION : ORANGE POWDER; NO ODOR
MELTING POINT : > 200 F
WATER SOLUBILITY : NE
PH : NE
SPECIFIC GRAVITY : APPROXIMATELY 1
% TOTAL VOC'S : 0
% NON-VOLATILES : 100
% WATER : 0

SECTION 10 STABILITY AND REACTIVITY

STABILITY : STABLE
CONDITIONS TO AVOID : NK
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBLE MATERIALS : NK
HAZARDOUS DECOMPOSITION PRODUCTS: BURNING CAN PRODUCE POSSIBLY TOXIC OR OTHERWISE HARMFUL FUMES:

SECTION 11 TOXICOLOGY INFORMATION

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

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

CHECK SECTION 3 FOR ANY OTHER OBSERVATIONS, EXPECTATIONS OR COMMENTS.

1) ALTHOUGH NO HEALTH EFFECT INFORMATION 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 OF THIS MSDS. READ 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. READ SECTIONS 3 AND 9.

MUTAGENICITY: NK

ADDITIONAL INFORMATION: CHECK SECTION 3

MEDICAL CONDITIONS MADE WORSE 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

HOD 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 OF WASTE SAMPLES.

IF NOT RECYCLED OR REWORKED IN ITS ORIGINAL UNUSED FORM, THIS MATERIAL SHOULD BE TREATED, AND DISPOSED OF AT AN APPROVED SITE OR FACILITY, IN COMPLIANCE

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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 ANY CHEMICALS, DYES OR OTHER COLOR SOLUTIONS INTO SEWERS, WATERWAYS OR 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 SHIPPING/TRANSPORT INFORMATION

DOT STATUS (HIGHWAY AND RAIL): NR

IATA STATUS (AIR): NR

SECTION 15 REGULATORY INFORMATION

AICS (AUSTRALIA): COMPONENTS LISTED
CAL. PROP. 65: CONTAINS THIS CHEMICAL KNOWN TO CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY: C.I. SOLVENT ORANGE 2 (OIL ORANGE SS) CAS NO. 2646-17-5, 100%.

CERCLA: NH

CLEAN AIR ACT:

TITLE III-HAP'S: NA

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

LEAD NE

MERCURY NE

DSL (CANADA): COMPONENTS LISTED

ECL (KOREA): SERIAL # KE-08558

EINECS (EUROPE): #220-162-8

ENCS (JAPAN): #5-3065

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: D-2-A

SECTION 16 OTHER INFORMATION

REASON FOR REVISION 11-14-00: UPDATED INVENTORY STATUS (MVP)

ACRONYM LIST

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
 NL = NOT LISTED OR APPROVED UNDER THESE REGULATIONS
 NR = NOT REGULATED OR REPORTABLE

NIOSH = NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

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