

EFFECTIVE DATE SUPERSEDES

06-14-01 05-01-98

SECTION 1 CHEMICAL IDENTIFICATION

C.I. NAME : BASIC BROWN 4
C.I. NUMBER : 21010
CAS NUMBER : 5421-66-9
CHEMICAL FAMILY: DISAZO 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. BASIC BROWN 4*	5421-66-9	NE	NE	>1

*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 * 1
FLAMMABILITY 1
REACTIVITY 1
PROTECTION F

* DENOTES DELAYED/CHRONIC HEALTH HAZARD

EMERGENCY OVERVIEW: MAY BE MUTAGENIC BASED ON POSITIVE AMES TEST.

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

POSSIBLE HEALTH EFFECTS:

EYE CONTACT: NOT EXPECTED TO IRRITATE. 1
SKIN CONTACT: NOT EXPECTED TO IRRITATE. 1
BREATHING DUST: NE. TAKE PRECAUTIONS. 1
SWALLOWING: EXPECTED TO BE PRACTICALLY NON-TOXIC. 1

SENSITIZATION: NK
TARGET ORGANS: NK

CANCER INFORMATION:

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

1 PRECAUTIONS:

TO HELP PROTECT YOURSELF FROM EITHER EXPECTED OR UNFORSEEN IRRITATION OR 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. 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 : DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM
FIREFIGHTING DIRECTIONS: WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POSSIBLY TOXIC FUMES. WEAR FULL FIRE-PROTECTIVE CLOTHING. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT.

SECTION 6 ACCIDENTAL SPILL OR RELEASES

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

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.

CHECK 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 FOR YOUR SPECIFIC PROCESSING CONDITIONS. WEAR AN APRON AND LONG SLEEVED CLOTHING. 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 : DARK POWDER; NO ODOR
MELTING POINT : NE

WATER SOLUBILITY : SOLUBLE
PH : 3.0 @ 10 G/L H2O
BULK DENSITY : NE
% 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 OXIDES OF CARBON AND NITROGEN.

SECTION 11 TOXICOLOGY INFORMATION

ORAL LD50 (RAT): ABOUT 5000 MG/KG
DERMAL LD50 (RAT): NE
INHALATION LC50 (RAT): NE

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

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

1) NOTE: ALTHOUGH THIS PRODUCT IS NOT AN IRRITANT BASED ON ANIMAL STUDIES, INDIVIDUALS CAN STILL BECOME SENSITIVE TO, OR REACT TO ANY CHEMICALS IN THEIR WORK AREAS. IT IS RECOMMENDED THAT ALL WORKERS WEAR ALL PROTECTIVE CLOTHING & EQUIPMENT AS SHOWN IN SECTION 8. 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 8.

MUTAGENICITY: BASIC BROWN 4 HAS BEEN FOUND TO BE POSITIVE IN MUTAGENICITY TESTING WITH SALMONELLA BACTERIA (AMES TEST). CONCERNING AMES TEST DATA, THE EPA HAS STATED THAT A SINGLE IN VITRO AMES TEST ALONE DOES NOT PROVIDE REASONABLE SUPPORT FOR A CONCLUSION OF SUBSTANTIAL RISK.

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

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 OF 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 ANY CHEMICALS, DYES OR DYE SOLUTIONS INTO ANY 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 TRANSPORT INFORMATION

DOT STATUS (HIGHWAY AND RAIL): NR

IATA STATUS (AIR): NR

SECTION 15 REGULATORY INFORMATION

AICS (AUSTRALIA): COMPONENTS LISTED

CAL. PROP. 65: CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER OR REPRODUCTIVE TOXICITY. (SEE CONEG SECTION BELOW).

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: NO CHROMIUM, CADMIUM, MERCURY OR LEAD IS INTENTIONALLY ADDED DURING
THE MANUFACTURE OF THIS PRODUCT. THE INCIDENTALY PRESENT TRACE OF THESE
METALS DOES NOT EXCEED THE CONEG LIMIT OF 100 PPM TOTAL FOR THE FOUR.

DSL (CANADA): COMPONENTS LISTED

ECL (KOREA): COMPONENTS LISTED

EINECS (EUROPE): #226-541-4

ENCS (JAPAN): #5-4538X

FDA STATUS: NL

OTHER TYPICAL DATA IN PPM: NK

PICCS: COMPONENTS LISTED

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 : NO
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-B

SECTION 16 OTHER INFORMATION

REASON FOR REVISION 06-14-01: GENERAL REVIEW

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

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.