
PREPARATION DATE

01-26-99

SECTION 1 CHEMICAL IDENTIFICATION

C.I. NAME : BASIC GREEN 4
C.I. NUMBER : 42000
CAS NUMBER : 569-64-2
CHEMICAL FAMILY: TRIPHENYLMETHANE DYE

SECTION 2 COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT NAME	CAS NUMBER	PEL	TLV	%
BASIC GREEN 4*	569-64-2	NE	NE	>70

*READ SECTIONS 3 AND 11 FOR ANY ADDITIONAL HEALTH & SAFETY INFORMATION

SECTION 3 HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

HMIS RATINGS

HEALTH 3
FLAMMABILITY 1
REACTIVITY 0
PROTECTION J*

* J = WORKERS MUST WEAR SPLASH-PROOF CHEMICAL SAFETY GOGGLES, DUST RESPIRATOR WITH PROPER CARTRIDGE FILTER, PROPER RUBBER GLOVES, COVERALLS, ETC. SEE SECTION 8 FOR DETAILED INSTRUCTIONS.

EMERGENCY OVERVIEW:

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

POSSIBLE HEALTH EFFECTS:

EYE CONTACT: EXPECTED TO CAUSE SEVERE IRRITATION. CAN CAUSE INJURY TO EYES, RANGING FROM SWELLING, IRRITATION, REDNESS, OR PUSS-LIKE DISCHARGE, TO TOTAL CLOUDING OVER OF THE EYE, DYING CELLS, OR TISSUE SEPARATION. 1
SKIN CONTACT: EXPECTED TO CAUSE SEVERE IRRITATION. 1
BREATHING DUST: HARMFUL IF BREATHED. 1
SWALLOWING: CAN BE TOXIC IF SWALLOWED. HAS CAUSED DIARRHEA AND ABDOMINAL PAIN IN HUMANS. (IN RATS INJECTED WITH WITH BASIC GREEN 4 CLINICAL SIGNS OF ASPHYXIATION, LUNG EDEMA AND BRADYCRADIA WERE REPORTED). 1

BIRTH DEFECTS AND EFFECTS OF REPRODUCTION: BASIC GREEN 4 HAS BEEN REPORTED TO CAUSE DEVELOPMENTAL ABNORMALITIES IN RABBITS PRIMARILY WITH SKELETON, LIVER, HEART, AND KIDNEYS (MEYER, TOXLINE).

SENSITIZATION: NOT A SENSITIZER

TARGET ORGANS: EYES, SKIN, LUNGS, LIVER, KIDNEYS

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 EXPECTED IRRITATION AND EFFECTS SUCH AS 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 MEASURES

EYE CONTACT: IMMEDIATELY RINSE WITH PLENTY OF CLEAN FLOWING WATER FOR 15 TO 20 MINUTES, HOLDING EYELIDS OPEN TO RINSE COMPLETELY. CALL A DOCTOR, AND GET MEDICAL ATTENTION IMMEDIATELY, 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 IMMEDIATELY.

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 IMMEDIATELY. 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 IMMEDIATELY TO GET MEDICAL HELP, CALL 911, OR OTHER MEDICAL EMERGENCY SERVICES AVAILABLE IN YOUR AREA.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : NA
TYPES OF EXTINGUISHERS : FOAM, CO2, DRY CHEMICAL OR WATER SPRAY
FIREFIGHTING DIRECTIONS: WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST POSSIBLY TOXIC FUMES. WEAR FULL FIRE-PROTECTIVE CLOTHING.

SECTION 6 ACCIDENTAL SPILL OR RELEASE MEASURES

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 ALL PROPER GOVERNMENT AUTHORITIES PERMISSION.

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 SIMILAR WATER-PROOF CONTAINERS. RESEAL CONTAINERS TIGHTLY AFTER EACH USE.

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 WITH YOUR SPECIFIC PROCESSING CONDITIONS IN MIND. WEAR AN APRON AND A LONG SLEEVED SHIRT. 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 : GREEN POWDER OR CRYSTALS; NO ODOR
MELTING POINT : NE
WATER SOLUBILITY : 7 G/L @ 20 C
PH : 2.0 @ 20 G/L WATER
BULK DENSITY : NE

SECTION 10 STABILITY AND REACTIVITY

STABILITY : STABLE
CONDITIONS TO AVOID : NK
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBLE MATERIALS : OXIDIZING & REDUCING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: BURNING CAN PRODUCE OXIDES OF CARBON AND NITROGEN. HYDROGEN CHLORIDE GAS MAY ALSO BE PRODUCED.

SECTION 11 TOXICOLOGY INFORMATION

FOR C.I. BASIC GREEN 4:
ORAL LD50 (RAT): 275 MG/KG (TOXIC)
DERMAL LD50 (RAT): NE
INHALATION LC50 (RAT): NE

EYE EFFECTS (RABBIT): SEVERE IRRITATION 1
SKIN EFFECTS (RABBIT): SEVERE IRRITATION 1
BREATHING EFFECTS: NE 1

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

1) AS PRECAUTIONS TO HELP MINIMIZE CONTACT, WEAR ALL PROTECTIVE EQUIPMENT & CLOTHING AS INSTRUCTED IN THE EXPOSURE CONTROLS AND PERSONAL PROTECTION SECTION OF THIS MSDS. SEE SECTION 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 GREEN 4 HAS BEEN REPORTED TO CAUSE DNA DAMAGE IN MAMMALIAN LYMPHOCYTES AND TO BE A MUTAGEN IN BACTERIA (RTECS).

ADDITIONAL INFORMATION: BASIC GREEN 4 HAS BEEN REPORTED TO CAUSE DEVELOPMENTAL ABNORMALITIES IN RABBITS PRIMARILY WITH THE SKELETON, LIVER, HEART, AND KIDNEYS (MEYER, TOXLINE).

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: LC50 <10 MG/L (72 HRS) GOLDEN IDES
SEED TOXICITY: NE
INHIBITION OF BACTERIA IN EFFLUENT: ICO >5000 MG/L, PSEUDOMONAS FLUORESC
CWA TOXIC POLLUTANTS: NK
ADDITIONAL INFORMATION: BIODEGRADABILITY - <10% (BOD5: COD) * 100

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 TESTING AND AUTHORIZATION.

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: NR

SECTION 15 REGULATORY INFORMATION

AICS: COMPONENTS LISTED

CAA: PRODUCT IS NOT MANUFACTURED WITH, NOR DOES IT CONTAIN CLASS I OR CLASS II OZONE DEPLETING CHEMICALS.

CAL. PROP. 65: TO THE BEST OF OUR PRESENT KNOWLEDGE, BASED ON INFORMATION AVAILABLE AT THE TIME OF THIS ENTRY, WE ARE NOT AWARE OF ANY CHEMICALS PRESENT IN THIS PRODUCT THAT ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

CERCLA: NH

CONEG-TYPICAL METALS PRESENT IN PPM:

CADMIUM NE

CHROMIUM NE

LEAD NE

MERCURY NE

DSL: COMPONENTS LISTED

ECL (KOREA): SERIAL #5-1864

EINECS: #209-322-8

ENCS (JAPAN): 5-2033

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: BASIC GREEN 4, 569-64-2, >70%

TSCA: COMPONENTS LISTED

USDA: NL

WHMIS: NC

SECTION 16 OTHER INFORMATION

REASON FOR REVISION: 01/26/99: UPDATE IN SECTION 15

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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