

SAFETY DATA SHEET FOR
ELJON CARMINE B

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: ELJON CARMINE B **SYNONYMS:** CI PIGMENT RED 5
CAS NUMBER: 6410-41-9 **CI CONSTITUTION NO:** 12490

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT 1: PIGMENT RED 5 #3 >97% **CAS:** 6410-41-9

3. HAZARDS IDENTIFICATION

MAIN HAZARDS: NO SIGNIFICANT HAZARD.

4. FIRST AID MEASURES

EYE CONTACT: THERE MAY BE IRRITATION AND REDNESS.
INHALATION: EXPOSURE MAY CAUSE COUGHING OR WHEEZING.

4. FIRST AID MEASURES

SKIN CONTACT: REMOVE ALL CONTAMINATED CLOTHING - WASH WITH PLENTY OF SOAP AND WATER
EYE CONTACT: BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES.
INGESTION: WASH OUT MOUTH THOROUGHLY WITH WATER, SYMPTOMATIC TREATMENT
INHALATION: REMOVE CASUALTY FROM EXPOSURE ENSURING ONE'S OWN SAFETY WHILST DOING SO.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY. CARBON DIOXIDE. ALCOHOL OR POLYMER FOAM. DRY CHEMICAL POWDER.
EXPOSURE HAZARDS: IN COMBUSTION EMITS TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE. IN COMBUSTION EMITS TOXIC FUMES OF NITROGEN OXIDES. IN COMBUSTION EMITS TOXIC FUMES OF HYDROGEN CHLORIDE / PHOSGENE.
PROTECTION OF FIRE-FIGHTERS: WEAR SELF-CONTAINED BREATHING APPARATUS.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS.
DO NOT CREATE DUST.
ENVIRONMENTAL PRECAUTIONS: DO NOT DISCHARGE INTO DRAINS OR RIVERS.
CLEAN-UP PROCEDURES: ABSORB INTO DRY EARTH OR SAND. TRANSFER TO A CLOSABLE, LABELLED SALVAGE CONTAINER FOR DISPOSAL BY AN APPROPRIATE METHOD.

7. HANDLING AND STORAGE

HANDLING: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA. AVOID THE FORMATION OR SPREAD OF DUST IN THE AIR.

STORAGE: STORE IN COOL, WELL VENTILATED AREA. KEEP AWAY FROM SOURCES OF IGNITION. AVOID CONTACT WITH WATER OR HUMIDITY.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTIVE DEVICE WITH PARTICLE FILTER.

HAND PROTECTION: NITRILE GLOVES.

EYE PROTECTION: SAFETY GOGGLES.

SKIN PROTECTION: PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE: POWDER **COLOUR:** RED **ODOUR:** ODOURLESS

SOLUBILITY IN WATER: INSOLUBLE **MELTING POINT/RANGE°C:** >305°

PART. COEFF. N-OCTANOL/WATER: NOT DETERMINED

RELATIVE DENSITY: 1.3 **PH:** 6.8 (2% EXTRACT)

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

HAZ. DECOMP. PRODUCTS: IN COMBUSTION EMITS TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE. IN COMBUSTION EMITS TOXIC FUMES OF NITROGEN OXIDES. IN COMBUSTION EMITS TOXIC FUMES OF HYDROGEN CHLORIDE / PHOSGENE.

11. TOXICOLOGICAL INFORMATION

TOXICITY: PIGMENT RED 5 #3

ORL RAT LD50 >2000MG/KG

12. ECOLOGICAL INFORMATION

MOBILITY: NON-VOLATILE. INSOLUBLE IN WATER. FLOATS ON WATER.

PERSISTENCE AND DEGRADABILITY: NOT BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: MIX OR DISSOLVE WITH A COMBUSTIBLE MATERIAL AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTERBURNERS AND SCRUBBERS. DISPOSE OF IN A REGULATED LANDFILL SITE OR OTHER METHOD FOR HAZARDOUS OR TOXIC WASTES.

DISPOSAL OF PACKAGING BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTERBURNERS AND SCRUBBERS. DISPOSE OF IN A REGULATED LANDFILL SITE OR OTHER METHOD FOR HAZARDOUS OR TOXIC WASTES.

NB: THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION

ADR / RID

IMDG / IMO

IATA / ICAO

15. REGULATORY INFORMATION

HAZARD SYMBOLS: NO SIGNIFICANT HAZARD.

WGK: 1

NOTE: THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTEHR INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. ALL DATA GIVEN ARE IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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**SAFETY DATA SHEET FOR
IRON (III) OXIDE ANHYDROUS**

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: IRON (III) OXIDE ANHYDROUS

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS NO.	CHEMICAL NAME	%	EINECS NO.
1309-37-1	IRON (III) OXIDE	100	215-168-2

HAZARD SYMBOLS: NONE LISTED.

RISK PHRASES: NONE LISTED.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: RED-BROWN TO BLACK SOLID.

WARNING: MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE MECHANICAL EYE AND SKIN IRRITATION. INHALATION OF FUMES MAY CAUSE METAL-FUME FEVER. CAUSES SEVERE DIGESTIVE TRACT IRRITATION WITH PAIN, NAUSEA, VOMITING AND DIARRHEA. MAY CORRODE THE DIGESTIVE TRACT WITH HEMORRHAGING AND POSSIBLE SHOCK.

TARGET ORGANS: NONE.

POTENTIAL HEALTH EFFECTS

EYE: DUST MAY CAUSE MECHANICAL IRRITATION.

SKIN: DUST MAY CAUSE MECHANICAL IRRITATION.

INGESTION:

MAY CAUSE SEVERE AND PERMANENT DAMAGE TO THE DIGESTIVE TRACT. MAY CAUSE LIVER DAMAGE. CAUSES SEVERE PAIN, NAUSEA, VOMITING, DIARRHEA, AND SHOCK. MAY CAUSE HEMORRHAGING OF THE DIGESTIVE TRACT. THE TOXICOLOGICAL PROPERTIES OF THIS SUBSTANCE HAVE NOT BEEN FULLY INVESTIGATED.

INHALATION:

DUST IS IRRITATING TO THE RESPIRATORY TRACT. INHALATION OF FUMES MAY CAUSE METAL FUME FEVER, WHICH IS CHARACTERIZED BY FLU-LIKE SYMPTOMS WITH METALLIC TASTE, FEVER, CHILLS, COUGH, WEAKNESS, CHEST PAIN, MUSCLE PAIN AND INCREASED WHITE BLOOD CELL COUNT.

CHRONIC:

CHRONIC INHALATION MAY CAUSE EFFECTS SIMILAR TO THOSE OF ACUTE INHALATION.

4. FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL AID IF IRRITATION DEVELOPS OR PERSISTS. WASH CLOTHING BEFORE REUSE.

INGESTION:

DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. GET MEDICAL AID.

INHALATION:

REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID.

NOTES TO PHYSICIAN:

TREAT SYMPTOMATICALLY

5. FIRE-FIGHTING MEASURES

GENERAL INFORMATION:

AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. NON-COMBUSTIBLE, SUBSTANCE ITSELF DOES NOT BURN BUT MAY DECOMPOSE UPON HEATING TO PRODUCE IRRITATING, CORROSIVE AND/OR TOXIC FUMES.

EXTINGUISHING MEDIA:

SUBSTANCE IS NONCOMBUSTIBLE; USE AGENT MOST APPROPRIATE TO EXTINGUISH SURROUNDING FIRE.

AUTOIGNITION TEMPERATURE: NOT APPLICABLE.

FLASH POINT: NOT APPLICABLE.

EXPLOSION LIMITS, LOWER: NOT AVAILABLE.

EXPLOSION LIMITS, UPPER: NOT AVAILABLE.

NFPA RATING: (ESTIMATED) HEALTH: 1; FLAMMABILITY: 0; INSTABILITY: 0

6. ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN SECTION 8.

SPILLS/LEAKS:

VACUUM OR SWEEP UP MATERIAL AND PLACE INTO A SUITABLE DISPOSAL CONTAINER. CLEAN UP SPILLS IMMEDIATELY, OBSERVING PRECAUTIONS IN THE PROTECTIVE EQUIPMENT SECTION. AVOID GENERATING DUSTY CONDITIONS. PROVIDE VENTILATION.

7. HANDLING AND STORAGE

HANDLING: WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE WITH ADEQUATE VENTILATION. MINIMIZE DUST GENERATION AND ACCUMULATION. AVOID CONTACT WITH SKIN AND EYES. KEEP CONTAINER TIGHTLY CLOSED. AVOID INGESTION AND INHALATION.

STORAGE: STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS:

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH	NIOSH	OSHA - FINAL PELS
IRON (III) OXIDE	5 MG/M3 (DUST AND FUME, AS FE)	5 MG/M3 TWA (DUST AND FUME, AS FE) 2500 MG/M3 IDLH (DUST AND FUME, AS FE)	10 MG/M3 TWA

OSHA VACATED PELS:

IRON (III) OXIDE:
10 MG/M3 TWA (FUME)

PERSONAL PROTECTIVE EQUIPMENT

EYES:

WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166.

SKIN:

WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN EXPOSURE.

CLOTHING:

WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

RESPIRATORS:

FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	SOLID
COLOR:	RED-BROWN TO BLACK
ODOR:	NONE REPORTED
PH:	NOT AVAILABLE.
VAPOR PRESSURE:	1 MM HG @ 20C
VAPOR DENSITY:	NOT AVAILABLE.
EVAPORATION RATE:	NOT AVAILABLE.
VISCOSITY:	NOT AVAILABLE.
BOILING POINT:	NOT AVAILABLE.
FREEZING/MELTING POINT:	2849 DEG F NOT AVAILABLE.
DECOMPOSITION TEMPERATURE:	INSOLUBLE IN WATER.
SOLUBILITY IN WATER:	5.24 (WATER=1)
SPECIFIC GRAVITY/DENSITY:	FE2O3
MOLECULAR FORMULA:	159.6922
MOLECULAR WEIGHT:	

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.

CONDITIONS TO AVOID:

INCOMPATIBLE MATERIALS, DUST GENERATION, EXCESS HEAT.

INCOMPATIBILITIES WITH OTHER MATERIALS:

ALUMINUM, BROMINE PENTAFLUORIDE, CALCIUM HYPOCHLORITE, CARBON DIOXIDE, CESIUM CARBIDE, ETHYLENE OXIDE, HYDRAZINE, PERFORMIC ACID.

HAZARDOUS DECOMPOSITION PRODUCTS:

IRRITATING AND TOXIC FUMES AND GASES.

HAZARDOUS POLYMERIZATION: HAS NOT BEEN REPORTED.

11. TOXICOLOGICAL INFORMATION

RTECS#: CAS# 1309-37-1: NO7400000

LD50/LC50:

NOT AVAILABLE.

CARCINOGENICITY:

IRON (III) OXIDE -

ACGIH: A4 - NOT CLASSIFIABLE AS A HUMAN CARCINOGEN (DUST AND FUME)

IARC: GROUP 3 CARCINOGEN

EPIDEMIOLOGY:

NO INFORMATION AVAILABLE.

TERATOGENICITY:

NO INFORMATION AVAILABLE.

REPRODUCTIVE EFFECTS:

NO INFORMATION AVAILABLE.

NEUROTOXICITY:

NO INFORMATION AVAILABLE.

MUTAGENICITY:

NO INFORMATION AVAILABLE.

OTHER STUDIES:

NONE.

12. ECOLOGICAL INFORMATION

OTHER NO INFORMATION AVAILABLE.

13. DISPOSAL CONSIDERATIONS

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE.

US EPA GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40 CFR PARTS 261.3. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

RCRA P-SERIES: NONE LISTED.

RCRA U-SERIES: NONE LISTED.

14. TRANSPORT INFORMATION

US DOT NO INFORMATION AVAILABLE

CANADIAN TDG

NO INFORMATION AVAILABLE.

15. REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 1309-37-1 IS LISTED ON THE TSCA INVENTORY.

HEALTH & SAFETY REPORTING LIST

NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST.

CHEMICAL TEST RULES

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE.

SECTION 12B

NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B.

TSCA SIGNIFICANT NEW USE RULE

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA.

SARA

CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ.

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ.

SARA CODES

CAS # 1309-37-1: CHRONIC.

SECTION 313

NO CHEMICALS ARE REPORTABLE UNDER SECTION 313.

CLEAN AIR ACT:

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS.

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS.

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS.

CLEAN WATER ACT:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY POLLUTANTS UNDER THE CWA.

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER THE CWA.

OSHA:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA.

STATE

IRON (III) OXIDE CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS.

CALIFORNIA NO SIGNIFICANT RISK LEVEL:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED.

EUROPEAN/INTERNATIONAL REGULATIONS

EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES

HAZARD SYMBOLS: NOT AVAILABLE.

RISK PHRASES:

SAFETY PHRASES:

WGK (WATER DANGER/PROTECTION)

CAS# 1309-37-1: 0

UNITED KINGDOM OCCUPATIONAL EXPOSURE LIMITS

CAS# 1309-37-1: OES-UNITED KINGDOM, TWA 5 MG/M3 TWA (FUME, AS FE)

CAS# 1309-37-1: OES-UNITED KINGDOM, STEL 10 MG/M3 STEL (FUME, AS FE)

UNITED KINGDOM MAXIMUM EXPOSURE LIMITS

CANADA

CAS# 1309-37-1 IS LISTED ON CANADA'S DSL LIST.

THIS PRODUCT HAS A WHMIS CLASSIFICATION OF D2B.

CAS# 1309-37-1 IS LISTED ON CANADA'S INGREDIENT DISCLOSURE LIST.

EXPOSURE LIMITS

CAS# 1309-37-1: OEL-ARAB REPUBLIC OF EGYPT:TWA 3 PPM (5 MG/M3) (FUME)

16. ADDITIONAL INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. ALL DATA GIVEN ARE IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

SAFETY DATA SHEET FOR
PIGMENT BLUE 15:3

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: PIGMENT BLUE 15:3 **CHEMICAL NAME:** PIGMENT POWDER BETA BLUE

2. COMPOSITION/ INFORMATION ON INGREDIENTS

PRODUCT IDENTIFICATION: C.I. PIGMENT BLUE 15.3

C.I. NO. 74160

CAS NO: 147-14-8

SUBSTANCE: COPPER PHTHALOCYANINE

3. HAZARDS IDENTIFICATION

THIS SUBSTANCE IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE AS DEFINED UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) NON HAZARDOUS TO MAN AND ENVIRONMENT.

4. FIRST AID MEASURES

INHALED: REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.

SKIN CONTACT: WASH AFFECTED SKIN WITH SOAP AND WATER.

EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, DILUTE WITH WATER. IF GASTRO INTESTINAL SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR FOAM.

THE FOLLOWING CAN BE GIVEN OFF: HYDROGEN CHLORIDE CAN BE FORMED IN A FIRE. WHEN BURNING

SPECIAL PROTECTIVE EQUIPMENT: SELF CONTAINED BREATHING APPARATUS PLUS FULL PROTECTIVE EQUIPMENT RECOMMENDED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT (SEE SECTION 8)
ENVIRONMENT PRECAUTIONS: AIRBORNE ORGANIC PIGMENT DUST MAY BE AN EXPLOSION HAZARD. SECURE SOURCE OF IGNITION AND AVOID RAISING DUST. VENTILATE AREA.
METHODS OF CLEANING UP: TAKE UP MECHANICALLY, PLACE IN A BAG AND HOLD FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICKUP.

7. HANDLING AND STORAGE

HANDLING: AVOID DUST FORMATION. IF DUST FORMATION ACCURS, TAKE PRECAUTIONARY MEASURES AGAINST DISCHARGES.
STORAGE: KEEP PACKAGING TIGHTLY CLOSED AND STORE IN A DRY AND COOL PLACE WITH ADEQUATE VENTILATION.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: EXHAUST VENTILATION, USE DUST MASK WHEN PACKAGE IS OPENED.
HAND PROTECTION: RUBBER HAND GLOVES.
EYE PROTECTION: SAFETY GOGGLES.
BODY PROTECTION: IMPERVIOUS CLOTHING.

RECOMMENDATION FOR PERSONAL PROTECTION ARE USE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES: POWDER **COLOUR:** BLUE **ODOUR:** ODOURLESS
CHANGE IN PHYSICAL STATE
MELTING POINT /MELTING RANGE: NOT APPLICABLE
BOILING POINT/ BOILING RANGE: NOT APPLICABLE
FLASH POINT: NOT APPLICABLE
COMBUSTIBILITY
EXPLOSION LIMITS: NO DATA AVAILABLE **IGNITION TEMPERATURE:** NO DATA
SELF IGNITION TEMPERATURE: NO DATA **VAPOUR PRESSURE:** NOT APPLICABLE
RELATIVE DENSITY: BULK DENSITY 3.1 TO 4.1 CC/GM
SOLUBILITY IN WATER: IN SOLUBLE
SOLUBILITY IN OTHER SOLVENTS: IN SOLUBLE IN MOST OF THE SOLVENTS
PH VALUE: 6.5 TO 8.0 **COEFFICIENT (LOG POW):** NO DATA AVAILABLE
VISCOSITY: NOT APPLICABLE

10. STABILITY AND REACTIVITY

THIS PRODUCT IS STABLE COMPOUND UNDER NORMAL STORAGE CONDITION AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

LD 50> 5 MG/KG (ORAL,RAT)
PRODUCT IS NON-IRRITANT TO SKIN AND EYES.

12. ECOLOGICAL INFORMATION

THE PRODUCT IS NOT VERY WATER SOLUBLE

13. DISPOSAL INFORMATION

CONSULT LOCAL EXPERTS FOR ADVICE ON THE DISPOSAL OF THIS MATERIAL. WASTE DISPOSABLE SHOULD BE CARRIED OUT ACCORDING TO LOCAL AND STATE REGULATIONS.

14. TRANSPORT INFORMATION

ROAD TRANSPORT

ADR/RID AND GGVS/GGVE: UN - NO: NONE / NON REGULATED

SEA TRANSPORT

IMDG/GGVSEE: UN - NO: NONE / NON REGULATED

AIR TRANSPORT

TCAO/ IATA: UN - ID NO: NONE / NON REGULATED

15. REGULATORY INFORMATION

NOT APPLICABLE

16. OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. ALL DATA GIVEN ARE IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

SAFETY DATA SHEET FOR
CALCIUM CARBONATE

1. CHEMICAL IDENTIFICATION

SYNONYMS: CARBONIC ACID CALCIUM SALT; CALCITE; ARAGONITE; LIMESTONE
CAS NO.: 471-34-1 **MOLECULAR WEIGHT:** 100.09 **CHEMICAL FORMULA:** CaCO₃

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
CALCIUM CARBONATE	471-34-1	90 - 100%	YES

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
NUISANCE DUST.

HEALTH RATING: 0 - NONE

FLAMMABILITY RATING: 0 - NONE

REACTIVITY RATING: 0 - NONE

CONTACT RATING: 1 - SLIGHT

LAB PROTECTIVE EQUIP: GOGGLES; LAB COAT

STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)

POTENTIAL HEALTH EFFECTS

INHALATION: EXCESSIVE CONCENTRATIONS OF A NUISANCE DUST MAY CAUSE NUISANCE
CONDITION SUCH AS COUGHING, SNEEZING, AND NASAL IRRITATION.

INGESTION: NON-TOXIC.

SKIN CONTACT: NOT EXPECTED TO BE A HEALTH HAZARD FROM SKIN EXPOSURE.

EYE CONTACT: NO INFORMATION FOUND, BUT PRESUMED TO CAUSE MECHANICAL IRRITATION.

CHRONIC EXPOSURE: EXCESSIVE ORAL DOSES OF CALCIUM CARBONATE MAY PRODUCE
ALKALOSIS AND HYPERCALCEMIA.

AGGRAVATION OF PRE-EXISTING CONDITIONS: NO INFORMATION FOUND.

4. FIRST AID MEASURES

INHALED: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION FOR ANY BREATHING
DIFFICULTY.

INGESTION: IF LARGE AMOUNTS WERE SWALLOWED, GIVE WATER TO DRINK AND GET
MEDICAL ADVICE.

SKIN CONTACT: WASH EXPOSED AREA WITH SOAP AND WATER. GET MEDICAL ADVICE IF
IRRITATION DEVELOPS.

EYE CONTACT: WASH THOROUGHLY WITH RUNNING WATER. GET MEDICAL ADVICE IF
IRRITATION DEVELOPS.

5. FIRE FIGHTING MEASURES

FIRE: NOT CONSIDERED TO BE A FIRE HAZARD.

EXPLOSION: NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

FIRE EXTINGUISHING MEDIA: USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING
FIRE.

SPECIAL INFORMATION: IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH
FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER
POSITIVE PRESSURE MODE.

6. ACCIDENTAL RELEASE MEASURES

VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. SPILLS: SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL.

7. HANDLING AND STORAGE

KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:

- OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): 15 MG/M³ TOTAL DUST, 5 MG/M³ RESPIRABLE FRACTION FOR NUISANCE DUSTS.
- ACGIH THRESHOLD LIMIT VALUE (TLV): 10 MG/M³ TOTAL DUST CONTAINING NO ASBESTOS AND < 1% CRYSTALLINE SILICA FOR PARTICULATES NOT OTHERWISE CLASSIFIED (PNOC).

VENTILATION SYSTEM:

A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGIH DOCUMENT, *INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES*, MOST RECENT EDITION, FOR DETAILS.

PERSONAL RESPIRATORS (NIOSH APPROVED):

IF THE EXPOSURE LIMIT IS EXCEEDED, A HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. A FULL-FACE PIECE DUST/MIST RESPIRATOR MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY, OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEPIECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES. SKIN PROTECTION: GLOVES AND LAB COAT, APRON OR COVERALLS.

EYE PROTECTION: USE CHEMICAL SAFETY GOGGLES. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: FINE, WHITE POWDER. ODOR: ODORLESS.
SOLUBILITY: 0.001 GM IN 100 ML WATER, SOLUBLE IN DILUTE ACIDS.
DENSITY: 2.7 - 2.95 PH: NO INFORMATION FOUND.
% VOLATILES BY VOLUME @ 21°C (70°F): 0
BOILING POINT: NOT APPLICABLE. MELTING POINT: 825°C (1517°F)
VAPOR DENSITY (AIR=1): NO INFORMATION FOUND.
VAPOR PRESSURE (MM HG): NO INFORMATION FOUND.
EVAPORATION RATE (BUAC=1): NO INFORMATION FOUND.

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.
HAZARDOUS DECOMPOSITION PRODUCTS: WHEN HEATED TO DECOMPOSITION (825C), EMITS CALCIUM OXIDE FUMES AND LIBERATES CARBON DIOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
INCOMPATIBILITIES: ACIDS, FLUORINE, MAGNESIUM WITH HYDROGEN.
CONDITIONS TO AVOID: HEAT, INCOMPATIBLES.

11. TOXICOLOGICAL INFORMATION

NO LD50/LC50 INFORMATION FOUND RELATING TO NORMAL ROUTES OF OCCUPATIONAL EXPOSURE.

Table with 4 columns: INGREDIENT, NTP KNOWN, CARCINOGEN ANTICIPATED, IARC CATEGORY. Row 1: CALCIUM CARBONATE {471-34-1}, NO, NO, NONE.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: NO INFORMATION FOUND.
ENVIRONMENTAL TOXICITY: NO INFORMATION FOUND.

13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH RELATED REQUIREMENTS.

14. TRANSPORT INFORMATION

NOT REGULATED.

15. REGULATORY INFORMATION

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-----\CHEMICAL INVENTORY STATUS - PART 1\-----
INGREDIENT                                     TSCA  EC  JAPAN  AUSTRALIA
-----
CALCIUM CARBONATE (471-34-1)                 YES  YES  YES    YES
  
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-----\CHEMICAL INVENTORY STATUS - PART 2\-----
                                     --CANADA--
INGREDIENT                               KOREA  DSL  NDSL  PHIL.
-----
CALCIUM CARBONATE (471-34-1)             YES    YES  NO    YES
  
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-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1\-----
                                     -SARA 302-   -----SARA 313-----
INGREDIENT                               RQ    TPQ    LIST  CHEMICAL CATG.
-----
CALCIUM CARBONATE (471-34-1)             NO    NO     NO     NO
  
```

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-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2\-----
                                     -RCRA-      -TSCA-
INGREDIENT                               CERCLA    261.33    8(D)
-----
CALCIUM CARBONATE (471-34-1)             NO        NO        NO
  
```

CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO
 SARA 311/312: ACUTE: YES CHRONIC: NO FIRE: NO PRESSURE: NO
 REACTIVITY: NO (PURE / SOLID)

AUSTRALIAN HAZCHEM CODE: NONE ALLOCATED.

POISON SCHEDULE: NONE ALLOCATED.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

16. OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. ALL DATA GIVEN ARE IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

. SAFETY DATA SHEET FOR
CI PIGMENT YELLOW 12

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: CI PIGMENT YELLOW 12
CHEMICAL NAME: CI PIGMENT YELLOW 12

2. COMPOSITION/ INFORMATION ON INGREDIENTS

PRODUCT IDENTIFICATION: ORGANIC PIGMENTS
C.I. NO: 21090,
CAS NO: 6358-85-6
SUBSTANCE: CI PIGMENT YELLOW 12

3. HAZARDS IDENTIFICATION

THIS SUBSTANCE IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE AS DEFINED UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) NON HAZARDOUS TO MAN AND ENVIRONMENT.

4. FIRST AID MEASURES

INHALED : REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.

SKIN CONTACT : WASH AFFECTED SKIN WITH SOAP AND WATER.

EYE CONTACT : FLUSH EYES WITH PLENTY OF WATER.

IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INGESTION : IF SWALLOWED, DILUTE WITH WATER. IF GASTRO INTESTINAL SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR FOAM.

THE FOLLOWING CAN BE GIVEN OFF: HYDROGEN CHLORIDE CAN BE FORMED IN A FIRE. WHEN BURNING

SPECIAL PROTECTIVE EQUIPMENT: SELF CONTAINED BREATHING APPARATUS PLUS FULL

PROTECTIVE EQUIPMENT RECOMMENDED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT (SEE SECTION 8)

ENVIRONMENT PRECAUTIONS: AIRBORNE ORGANIC PIGMENT DUST MAY BE AN EXPLOSION HAZARD. SECURE SOURCE OF IGNITION AND AVOID RAISING DUST. VENTILATE AREA.

METHODS OF CLEANING UP: TAKE UP MECHANICALLY. PLACE IN A BAG AND HOLD FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICKUP.

7. HANDLING AND STORAGE

HANDLING: AVOID DUST FORMATION. IF DUST FORMATION ACCURS, TAKE PRECAUTIONARY MEASURES AGAINST DISCHARGES.

STORAGE: KEEP PACKAGING TIGHTLY CLOSED AND STORE IN A DRY AND COOL PLACE WITH ADEQUATE VENTILATION.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: EXHAUST VENTILATION, USE DUST MASK WHEN PACKAGE IS OPENED.

HAND PROTECTION: RUBBER HAND GLOVES.

EYE PROTECTION: SAFETY GOGGLES.

BODY PROTECTION: IMPERVIOUS CLOTHING.

RECOMMENDATION FOR PERSONAL PROTECTION ARE USED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES: POWDER COLOUR: N/A ODOUR: ODOURLESS

CHANGE IN PHYSICAL STATE

MELTING POINT /MELTING RANGE: NOT APPLICABLE

BOILING POINT/ BOILING RANGE: NOT APPLICABLE

FLASH POINT: NOT APPLICABLE

COMBUSTIBILITY

EXPLOSION LIMITS: NO DATA AVAILABLE **IGNITION TEMPERATURE:** NO DATA

SELF IGNITION TEMPERATURE: NO DATA **VAPOUR PRESSURE:** NOT APPLICABLE

RELATIVE DENSITY: BULK DENSITY 3.1 TO 4.1 CC/GM

SOLUBILITY IN WATER: IN SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: IN SOLUBLE IN MOST OF THE SOLVENTS

PH VALUE: 6.5 TO 8.0

COEFFICIENT (LOG POW): NO DATA AVAILABLE

VISCOSITY: NOT APPLICABLE

10. STABILITY AND REACTIVITY

THIS PRODUCT IS STABLE COMPOUND UNDER NORMAL STORAGE CONDITION AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

LD50 > 5 MG/KG (ORAL, RAT)
PRODUCT IS NON-IRRITANT TO SKIN AND EYES.

12. ECOLOGICAL INFORMATION

THE PRODUCT IS NOT VERY WATER SOLUBLE

13. DISPOSAL INFORMATION

CONSULT LOCAL EXPERTS FOR ADVICE ON THE DISPOSAL OF THIS MATERIAL. WASTE DISPOSABLE SHOULD BE CARRIED OUT ACCORDING TO RELATED REGULATIONS.

14. TRANSPORT INFORMATION

ROAD TRANSPORT

ADR/RID AND GGVS/GGVE: UN - NO : NONE / NON REGULATED

SEA TRANSPORT

IMDG/GGVSEE: UN - NO : NONE / NON REGULATED

AIR TRANSPORT

TCAO/ IATA: UN - ID NO : NONE / NON REGULATED

15. REGULATORY INFORMATION

NOT APPLICABLE

16. OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. ALL DATA GIVEN ARE IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

SAFETY DATA SHEET FOR
CI PIGMENT YELLOW 12

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: CI PIGMENT YELLOW 12
CHEMICAL NAME: CI PIGMENT YELLOW 12

2. COMPOSITION/ INFORMATION ON INGREDIENTS

PRODUCT IDENTIFICATION: ORGANIC PIGMENTS
C.I. NO: 21090,
CAS NO: 6358-85-6
SUBSTANCE: CI PIGMENT YELLOW 12

3. HAZARDS IDENTIFICATION

THIS SUBSTANCE IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE AS DEFINED UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) NON HAZARDOUS TO MAN AND ENVIRONMENT.

4. FIRST AID MEASURES

INHALED : REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.

SKIN CONTACT : WASH AFFECTED SKIN WITH SOAP AND WATER.

EYE CONTACT : FLUSH EYES WITH PLENTY OF WATER.

IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INGESTION : IF SWALLOWED, DILUTE WITH WATER. IF GASTRO INTESTINAL SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR FOAM.

THE FOLLOWING CAN BE GIVEN OFF: HYDROGEN CHLORIDE CAN BE FORMED IN A FIRE. WHEN BURNING

SPECIAL PROTECTIVE EQUIPMENT: SELF CONTAINED BREATHING APPARATUS PLUS FULL PROTECTIVE EQUIPMENT RECOMMENDED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT (SEE SECTION 8)

ENVIRONMENT PRECAUTIONS: AIRBORNE ORGANIC PIGMENT DUST MAY BE AN EXPLOSION HAZARD. SECURE SOURCE OF IGNITION AND AVOID RAISING DUST. VENTILATE AREA.

METHODS OF CLEANING UP: TAKE UP MECHANICALLY. PLACE IN A BAG AND HOLD FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICKUP.

7. HANDLING AND STORAGE

HANDLING: AVOID DUST FORMATION. IF DUST FORMATION ACCURS, TAKE PRECAUTIONARY MEASURES AGAINST DISCHARGES.

STORAGE: KEEP PACKAGING TIGHTLY CLOSED AND STORE IN A DRY AND COOL PLACE WITH ADEQUATE VENTILATION.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: EXHAUST VENTILATION, USE DUST MASK WHEN PACKAGE IS OPENED.

HAND PROTECTION: RUBBER HAND GLOVES.

EYE PROTECTION: SAFETY GOGGLES.

BODY PROTECTION: IMPERVIOUS CLOTHING.

RECOMMENDATION FOR PERSONAL PROTECTION ARE USED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES: POWDER COLOUR: N/A ODOUR: ODOURLESS

CHANGE IN PHYSICAL STATE

MELTING POINT /MELTING RANGE: NOT APPLICABLE

BOILING POINT/ BOILING RANGE: NOT APPLICABLE

FLASH POINT: NOT APPLICABLE

COMBUSTIBILITY

EXPLOSION LIMITS: NO DATA AVAILABLE IGNITION TEMPERATURE: NO DATA

SELF IGNITION TEMPERATURE: NO DATA VAPOUR PRESSURE: NOT APPLICABLE

RELATIVE DENSITY: BULK DENSITY 3.1 TO 4.1 CC/GM

SOLUBILITY IN WATER: IN SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: IN SOLUBLE IN MOST OF THE SOLVENTS

PH VALUE: 6.5 TO 8.0 COEFFICIENT (LOG POW): NO DATA AVAILABLE

VISCOSITY: NOT APPLICABLE

10. STABILITY AND REACTIVITY

THIS PRODUCT IS STABLE COMPOUND UNDER NORMAL STORAGE CONDITION AND HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION

LD50 > 5 MG/KG (ORAL, RAT)
PRODUCT IS NON-IRRITANT TO SKIN AND EYES.

12. ECOLOGICAL INFORMATION

THE PRODUCT IS NOT VERY WATER SOLUBLE

13. DISPOSAL INFORMATION

CONSULT LOCAL EXPERTS FOR ADVICE ON THE DISPOSAL OF THIS MATERIAL. WASTE DISPOSABLE SHOULD BE CARRIED OUT ACCORDING TO RELATED REGULATIONS.

14. TRANSPORT INFORMATION

ROAD TRANSPORT

ADR/RID AND GGVS/GGVE: UN - NO : NONE / NON REGULATED

SEA TRANSPORT

IMDG/GGVSEE: UN - NO : NONE / NON REGULATED

AIR TRANSPORT

TCAO/ IATA: UN - ID NO : NONE / NON REGULATED

15. REGULATORY INFORMATION

NOT APPLICABLE

16. OTHER INFORMATION

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SAFETY DATA SHEET FOR
COPPER PHTHALOCYANINE, CHLORINATED

1. CHEMICAL IDENTIFICATION

PRODUCT NAME: PIGMENT GREEN 7
 CHEMICAL NAME: COPPER PHTHALOCYANINE, CHLORINATED

2. COMPOSITION/ INFORMATION ON INGREDIENTS

PRODUCT IDENTIFICATION: C.I.PIGMENT GREEN 7 C.I. NO. 74260
 CAS NO: 1328-53-6 SUBSTANCE: COPPER PHTHALOCYANINE

3. HAZARDS IDENTIFICATION

THIS SUBSTANCE IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE AS DEFINED UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) NON HAZARDOUS TO MAN AND ENVIRONMENT.

4. FIRST AID MEASURES

INHALED: REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.
 SKIN CONTACT: WASH AFFECTED SKIN WITH SOAP AND WATER.
 EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER.

IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, DILUTE WITH WATER. IF GESTRO INTESTINAL SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR FOAM.
 THE FOLLOWING CAN BE GIVEN OFF IN A FIRE: HYDROGEN CHLORIDE CAN BE FORMED
 WHEN BURNING

SPECIAL PROTECTIVE EQUIPMENT: SELF CONTAINED BREATHING APPARATUS PLUS FULL PROTECTIVE EQUIPMENT RECOMMENDED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: CLEAN UP WITH APPROPRIATE PERSONAL EQUIPMENT (SEE SECTION 8)

ENVIRONMENT PRECAUTIONS: AIRBORNE ORGANIC PIGMENT DUST MAY BE AN EXPLOSION HAZARD. SECURE SOURCE OF IGNITION AND AVOID RAISING DUST. VENTILATE AREA.

METHODS OF CLEANING UP: TAKE UP MECHANICALLY, PLACE IN A BAG AND HOLD FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICKUP.

7. HANDLING AND STORAGE

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STORAGE: KEEP PACKAGING TIGHTLY CLOSED AND STORE IN A DRY AND COOL PLACE WITH ADEQUATE VENTILATION.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

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EYE PROTECTION: SAFETY GOGGLES.

BODY PROTECTION: IMPERVIOUS CLOTHING.

RECOMMENDATION FOR PERSONAL PROTECTION ARE USE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES: POWDER **COLOUR:** GREEN **ODOUR:** ODOURLESS

CHANGE IN PHYSICAL STATE

MELTING POINT /MELTING RANGE: NOT APPLICABLE

BOILING POINT/ BOILING RANGE: NOT APPLICABLE

FLUSH POINT: NOT APPLICABLE

COMBUSTIBILITY

EXPLOSION LIMITS: NO DATA AVAILABLE

IGNITION TEMPERATURE: NO DATA

SELF IGNITION TEMPERATURE: NO DATA

VAPOUR PRESSURE: NOT APPLICABLE

RELATIVE DENSITY: BULK DENSITY 3.1 TO 4.1 CC/GM

SOLUBILITY IN WATER: IN SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: IN SOLUBLE IN MOST OF THE SOLVENTS

PH VALUE : 6.5 TO 8.0

COEFFICIENT (LOG POW): NO DATA AVAILABLE

VISCOSITY: NOT APPLICABLE

10. STABILITY AND REACTIVITY

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11. TOXICOLOGICAL INFORMATION

LD₅₀ > 5 MG/KG (ORAL, RAT)
PRODUCT IS NON-IRRITANT TO SKIN AND EYES.

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ADR/RID AND GGVS/GGVE: UN - NO: NONE / NON REGULATED

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AIR TRANSPORT

TCAO/ IATA: UN - ID NO: NONE / NON REGULATED

15. REGULATORY INFORMATION

NOT APPLICABLE

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