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SAFETY DATA SHEET (SDS)

SECTION I. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT IDENTIFIER:

PRODUCT NAME**D&C ORANGE 5 ZIRC/ALUM LAKE**

PRODUCT NUMBER 3-C5-005DC-STD

CHEMICAL FAMILYPIGMENT LAKE

CAS#..... 596-03-2

INTENDED USE OF THE PRODUCT:

PRODUCT COLORANT

SECTION 2. HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

GHS-US
NON-CATEGORIZED

GHS LABELING:

HAZARD PICTOGRAMS (GHS-US): NO SYMBOL

SIGNAL WORD NONE

HAZARD STATEMENT(S) NONE

PRECAUTIONARY STATEMENTS P305 + 351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE RINSING.
P264 - WASH FACE THOROUGHLY AFTER HANDLING.
P280 - WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P270 - DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT
P260 - DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY
P501 - DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH

LOCAL/ REGIONAL/ NATIONAL INTERNATIONAL REGULATIONS.
 P302+P352 - IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER FOR 15 MINUTES.
 P301+P330+P331 - IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITTING.
 P304 + P340- IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT

OTHER HAZARDS	NO DATA AVAILABLE
UNKNOWN ACUTE TOXICITY	NO DATA AVAILABLE

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:

NAME	C.A.S.#	WEIGHT 100%	GHS-US CLASSIFICATION
D&C ORANGE NO. 5 LAKE	596-03-2		

NO HAZARDOUS COMPONENTS FOUND	NONE	NONE
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SECTION 4. FIRST AID MEASURES

FIRST AID MEASURES GENERAL:

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.

SKIN: WASH WITH MILD SOAP AND WATER. IF IRRITATION OCCURS GET MEDICAL ATTENTION. IF CLOTHING IS CONTAMINATED, RE-MOVE AND WASH BEFORE REUSE.

EYES: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS APART FOR THOROUGH IRRIGATION. GET IMMEDIATE MEDICAL ATTENTION. DO NOT WEAR CONTACT LENSES WHILE HANDLING.

INGESTION: DILUTE WITH WATER. GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING OR GIVE FLUIDS IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

SECTION 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM.

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MEDIA:

FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS TO GUARD AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES. AVOID DUSTING. DUST CAN FORM EXPLOSIVE MIXTURES WITH AIR.

PROTECTION/ADVICE FOR FIREFIGHTER(S):

BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

REMOVE PERSONS FROM DANGER AREA.

ENVIROMENTAL PRECAUTIONS:

AVOID ANY UNCONTROLLED RELEASE OF MATERIAL. DO NOT EMPTY INTO DRAINS OR THE AQUATIC ENVIRONMENT.

EMERGENCY PROCEDURES:

NO ADDITIONAL INFORMATION

METHODS AND MATERIALS FOR CONTAMINENT AND CLEANING UP:

WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED. AVOID ANY UNCONTROLLED RELEASE OF MATERIAL.

UTILIZE RECOMMENDED PROTECTIVE CLOTHING AND EQUIPMENT (SEE SECTION 8).
SPILLS SHOULD BE SWEEPED UP USING AN ABSORBENT DUST CONTROL PRODUCT AND PLACED IN CONTAINERS. SPILL AREA CAN BE WASHED WITH WATER. COLLECT WATER FOR APPROVED DISPOSAL. IN THE EVENT OF UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

HANDLE WITH CARE. WEAR APPROPRIATE PROTECTION: GOGGLES, GLOVES AND WORK CLOTHING. OVER EXPOSURE MAY CAUSE IRRITATION. AVOID BREATHING FUMES. KEEP IN WARM AREA. WASH AFTER HANDLING.

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE. HANDLE WITH CARE AND AVOID PERSONAL CONTACT.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

KEEP CONTAINERS TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA.

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION.

KEEP AWAY FROM STRONG OXIDIZING AND REDUSING AGENTS.

SPECIFIC END USES:

PRODUCT COLORANT

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

CONTROL PARAMETERS:

INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE - NOT REQUIRED

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS - THE USUAL PRECAUTIONARY MEASURES ARE TO BE ADHERED TO WHEN HANDLING CHEMICALS.

PERSONAL PROTECTIVE EQUIPMENT:



HAND PROTECTION

EYE PROTECTION

SKIN AND BODY

WEAR IMPERMEABLE RUBBER OR PLASTIC GLOVES

TIGHTLY SEALED SAFETY GOGGLES OR FULL FACE SIDE SHIELDS.

APRON, COVERALLS AND NON-LEATHER SOLED WORK SHOES.

WASH DYE CONTAMINATED CLOTHES AND SKIN WITH MILD SOAP AND DETERGENTS.

RESPIRATORY

HYGIENE MEASURES

WEAR OSHA/NIOSH APPROVED DUST MASK/RESPIRATOR

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. WASH HANDS AFTER HANDLING MATERIAL.

OTHER PROTECTION

DELUGE SAFETY SHOWER AND EYE WASH STATION SHOULD BE LOCATED NEAR WORK AREA.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :

APPEARANCE, COLOR, ODOR	ORANGE RED POWDER, ODOR MILD
pH	ND
MELTING POINT/FREEZING POINT	ND
INITIAL BOILING POINT/BOILING RANGE	NA
FLASHPOINT	ND
EVAPORATION RATE	ND
FLAMMABILITY (SOLID,GAS)	NA
UPPER EXPLOSIVE LIMITS	NA
LOWER EXPLOSIVE LIMITS	NA
VAPOR PRESSURE	NA
VAPOR DENSITY	NA
DENSITY	NA
SOLUBILITY IN WATER	INSOLUBLE
PARTITION COEFFICIENT N-OCTANOL/WATER	N-OCTANOL/WATER.....ND
AUTO-IGNITION TEMPERATURE	NO DATA
DECOMPOSITION TEMPERATURE	NO DATA
VISCOSITY, DYNAMIC	NO DATA
VISCOSITY, CINEMATIC	NO DATA
EXPLOSIVE PROPERTIES	N/A
OXIDIZING PROPERTIES	NA

OTHER INFORMATION

NA

 SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS.
CONDITIONS TO AVOID	OXIDIZING AND REDUCING AGENTS MAY DESTROY COLOR.
INCOMPATIBLE MATERIALS	OXIDIZING AND REDUCING AGENTS MAY DESTROY COLOR.
HAZARDOUS DECOMPOSITION PRODUCTS	- CO, CO ₂ , OXIDES OF NITROGEN AND OTHER POTENTIALLY TOXIC FUMES.

 SECTION 11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS :

ORAL (ANIMAL) - LD ₅₀ (INGESTION)	> 10,000 MG/KG (RAT)
FISH, LC 50	ND
EFFECTS TO EYES	NON-IRRITANT (RABBIT EYE)
SKIN IRRITATION	NON-IRRITANT (RABBIT)
SENSITIZATION	NONE EXPECTED

PRIMARY ROUTE OF EXPOSURE:	INHALATION	YES
	SKIN CONTACT	YES
	SKIN ABSORPTION	NO
	EYE CONTACT	YES
	INGESTION	NO

CARCINOGEN STATUS:	IARC	NO
	NTP	NO
	OSHA	NO
	ACGIH	NO

 SECTION 12. ECOLOGICAL INFORMATION

BACTERIA TOXICITY	< 10%
BIODEGRADABILITY	ND
AOX	0.000%

 SECTION 13. DISPOSAL CONSIDERATION

WASTE DISPOSAL RECOMMENDATION :

EMPTY BAGS THOROUGHLY. CARRY OUT THE PROPER RECYCLING, REUSAGE OR DISPOSAL. PLEASE REFER TO THE RELEVANT EU REGULATIONS, IN PARTICULAR THE GUIDELINES/DECISIONS OF THE COUNCIL REGARDING HANDLING OF WASTES (E.G. 75/442/EEC, 91/689/EEC, 94/67/EC, 94/904/EC) AS IMPLEMENTED IN NATIONAL REGULATIONS.

REGIONAL RECOMMENDATION :

BURY OR INCINERATE ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

CONTAINERS SHOULD NOT BE REUSED WITHOUT PROFESSIONAL CLEANING AND RECONDITIONING.
OBSERVE ALL LABELED SAFEGUARDS UNTIL CLEANED, RECONDITIONED OR DESTROYED.

PLEASE REFER TO SECTION 8 (EXPOSURE CONTROLS /PERSONAL PROTECTION) OF THIS SDS.

SECTION 14. TRANSPORTATION INFORMATION

UN NUMBER	NONE
PROPER SHIPPING NAME	NON-HAZARDOUS INK MATERIAL

DEPARTMENT OF TRANSPORTATION (DOT) :

TRANSPORT HAZARD CLASS(ES)

HAZARD LABELS (DOT) :

PACKING GROUP (DOT)	NA
DOT SPECIAL PROVISIONS	NA

ADDITIONAL INFORMATION:

OVERLAND TRANSPORT	NONE
TRANSPORT BY SEA	NONE
AIR TRANSPORT	NONE
DOT QUANTITY LIMITATIONS PASSENGER AIRCRAFT	NA
DOT QUANTITY LIMITATIONS CARGO AIRCRAFT	NA

SECTION 15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

THIS SUBSTANCE IS LISTED ON UNITED STATES TSCA (TOXIC SUBSTANCE CONTROL ACT) INVENTORY.

SARA 313:

THIS PRODUCT IS NOT SUBJECT TO SARA TITLE III SECTION 313 REPORTING REQUIREMENTS UNDER 40 CFR 372.

SARA 312:

IMMEDIATE (ACUTE) HEALTH HAZARD	NO
DELAYED (CHRONIC) HEALTH HAZARD	NO
FIRE HAZARD	NO
SUDDEN RELEASE OF PRESSURE	NO
REACTIVITY	NO

THIS PRODUCT IS NOT SUBJECT TO THE GERMAN ORDINANCE THAT BANS CERTAIN AZO DYES OR THE 19TH AMENDMENT OF THE COUNCIL DIRECTIVE 76/769/EEC.

CA PROPOSITION 65:

THIS PRODUCT DOES NOT CONTAIN ANY COMPONENTS CURRENTLY ON THE CALIFORNIA LIST OF KNOWN CARCINOGENS AND REPRODUCTIVE TOXINS.

TSCA STATUS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

E C CLASSIFICATION

EINECS NUMBER

REACH CLASSIFICATION

R PHRASES

ADDITIONAL REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

INDICATION OF CHANGES:

NA

OTHER INFORMATION:

NA

HEALTH FLAMMABILITY REACTIVITY PERSONAL PROT

H. M. I. S. CLASSIFICATION:

HMIS CODE: 4 - SEVERE HAZARD, 3 - SERIOUS HAZARD, 2 - MODERATE HAZARD, 1 - SLIGHT HAZARD, 0 - MINIMAL HAZARD

ALL INFORMATION AND DATA APPEARING ON THIS SDS ARE BELIEVED TO BE RELIABLE AND ACCURATE. HOWEVER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY, AND SUITABILITY FOR USE OF THE PRODUCT DESCRIBED. SINCE THE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED. USER ASSUMES ALL RISK AND RESPONSIBILITY.