

MATERIAL SAFETY DATA SHEET OF PARAWHITE HK POWDER

SECTION 01 : PRODUCT IDENTIFICATION

MANUFACTURE.....**PARAMOUNT MINERALS AND CHEMICALS LIMITED**
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PRODUCT NAME.....**PARAWHITE HK POWDER**

PRODUCT USE.....**PAPER & DETERGENT INDUSTRY**

CHEMICAL FAMILY.....**C.I. FLOURESCENT BRIGHTENER 252 PREPERATION OF
 2,2'-STILBENEDISULFONIC ACID, 4,4'-BIS[[4-ANILINO-6-[(2-HYDROXYETHYL)
 AMINO]-S-TRIAZIN-2-YL]AMINO]-DISODIUM SALT.**

MATERIAL USE.....**OPTICAL BRIGHTENING AGENT**

SECTION 02 : HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V	C.A.S.#	LD/50. ROUTE, SPECIE	LC/50, ROUTE, SPECIE
NONE			17958-73-5	N/A	N/A

SECTION 03 : HAZARDS IDENTIFICATION

ROUTE OF ENTRY.....EYE CONTACT. SKIN CONTACT

EYE CONTACT.....NON IRRITANT

SKIN CONTACT.....NON IRRITANT

SKIN ABSORPTION.....NOT AVAILABLE

INHALATION(ACUTE).....NON IRRITANT

INGESTION.....NOT AVAILABLE

EFFECTS OF CHRONIC EXPOSURE....NOT AVAILABLE

SECTION 04 : FIRST AID MEASURES

EYE CONTACT.....IN CASE OF CONTACT, IMMEDIATELT FLUSH EYES WITH PLENTY OF WATER
 FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION

CONTINUES.

SKIN CONTACT.....IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER.
 REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE.

INHALATION.....IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICAL
 RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. OBTAIN MEDICAL
 ATTENTION.

INGESTION.....IF INGESTED, CONSULT A PHYSICIAN.

ADDITIONAL INFORMATION.....NOT AVAILABLE

SECTION 05 : FIRE FIGHTING MEASURES

FLASH POINT @ , METHOD.....100. (DIN 51758)

AUTO IGNITION TEMPERATURE @.430. (DIN 51794)

UPPER FLAMABLE LIMIT (%VOL)....NOT AVAILABLE

LOWER FLAMABLE LIMIT(%VOL)....NOT AVAILABLE

EXTINGUISHING MEDIA.....CARBON DIOXIDE, DRY CHEMICAL, FOAM. WATER SPRAY

HAZARDOUS COMBUSTION PROD..BY FIRE: PROTECT AGAINST POTENTIALLY TOXIC AND IRRITATING FUMES .

SENSITIVITY TO MECHANICAL.....NOT APPLICABLE

IMPACT

SENSITIVITY TO STATIC.....NOT APPLICABLE

DISCHARGE

SECTION 06 : ACCIDENTAL RELEASE MEASURES

LEAK/SPILL.....SPILLS SHOULD BE TAKEN UP WITH SUITABLE ABSORBENT AND PLACED IN
 CONTAINERS. SPILL AREA CAN BE WASHED WITH WATER. COLLECT WASH
 WATER FOR APPROVED DISPOSAL.

SECTION 07 : HANDLING AND STORAGE

HANDLING PROCEDURES.....AVOID SKIN AND EYE CONTACT. AVOID BREATHUNG VAPORS. MAINTAIN A
 GOOD PERSONAL HYGIENE.

STORAGE NEEDS.....KEEP CONTAINERS TIGHTLY CLOSED. STORE IN A COOL DRY AREA AWAY
 FROM EXCESS HEAT.

SECTION 08 : EXPOSURE

CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

EYE/TYPE.....SAFETY GLASSES
RESPIRATORY/TYPE.....NONE REQUIRED UNDER NORMAL USE.
GLOVES/TYPE.....CHEMICAL RESISTANT GLOVES.
CLOTHING/TYPE.....WEAR ADEQUATE PROTECTIVE CLOTHES.
FOOTWEAR/TYPE.....NOT APPLICABLE
OTHER/TYPE.....EYEWASH FOUNTAIN. EMERGENCY SHOWER SHOULD BE IN CLOSE

PROXIMITY .

VENTILATION REQUIREMENTS.....VENTILATE ADEQUATELY.

SECTION 09 : PHYSICAL PROPERTIES

PHYSICAL STATE.....**POWDER**
ODOR.....ODOURLESS
BULK DENSITY1.0
ODOR THRESHOLD(ppm).....NOT AVAILABLE
VAPOUR PRESSURE(mm Hg).....23 MBAR @ 20 DEG C. 114 MBAR @ 50 DEG C
VAPOUR DENSITY(AIR=1).....NOT AVAILABLE
EVAPORATION RATE.....NOT AVAILABLE
BOILING POINT(deg c).....100
pH.....**5-6**
SOLUBILITY IN WATER(% w/w).....MISCIBLE
COEFFICIENT OF WATER/OIL.....NOT APPLICABLE
DISTRIBUTION
FREEZING POINT (deg c).....NOT AVAILABLE
MELTING POINT (deg c).....NOT AVAILABLE

SECTION 10 : STABILITY AND REACTIVITY

INCOMPATIBILITY.....NOT AVAILABLE
REACTIVITY CONDITIONS.....NOT AVAILABLE
HAZARDOUS PRODUCTS OF.....NOT AVAILABLE
DECOMPOSITION

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LD50).....2000 MG/KG (RAT)
IRRITANCY OF MATERIAL.....NON IRRITANT
SENSITIZING CAPABILITY OF.....NOT AVAILABLE
MATERIAL
CARCINOGENICITY OF MATERIAL..NOT AVAILABLE
TERATOGENICITY.....NOT AVAILABLE
MUTAGENICITY.....NOT AVAILABLE
REPRODUCTIVE EFFECTS.....NOT AVAILABLE
SYNERGISTIC MATERIALS.....NOT AVAILABLE

SECTION 12 : ECOLOGICAL INFORMATION

FISH TOXICITY.....LCO: 1 - 10 MG/L
TEST SPECIES.....BRACHYDANIO
TESTING TIME.....96 H
BIODEGRADABILITY
INHABITION OF ACTIVITY OF.....50% - INHIBITORY EFFECTS: ABOVE 100 MG/L
WASTE WATER BACTERIA:
METHOD.....RESPIRATORY INHIBITION OF ACTIVATED SLUDGE ORGANISMS ACCORDING
TO D. BROWN ET AL., CHEMOSPHERE, 10(3), 245-261 (1981), AND CONFORMING
TO OECD GUIDELINE 209.

SECTION 13 : DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL
REGULATIONS.

SECTION 14 : TRANSPORT INFORMATION

T.D.G.CLASSIFICATION.....NON REGULATED.

SECTION 15 : REGULATORY INFORMATION

WHMIS CLASSIFICATION.....NON CONTROLLED. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS

AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

SECTION 16 : OTHER INFORMATION

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