

PARAMOUNT MINERALS AND CHEMICALS LIMITED

MATERIAL SAFETY DATA SHEET OF PARAWHITE DMS U POWDER

SECTION 01 : PRODUCT IDENTIFICATION

MANUFACTURER.....PARAMOUNT MINERALS AND CHEMICALS LIMITED
33, OLD HANUMAN LANE, KALBADEVI ROAD, MUMBAI -400002
TEL: 91-22 – 22408562/22429302/56334471/56334472

PRODUCT NAME.....**PARAWHITE DMS U POWDER**

PRODUCT USE..... **DETERGENT INDUSTRY**

CHEMICAL FAMILY.....**C.I. FLOURESCENT BRIGHTENER 71 PREPERATION OF
2,2'-STILBENEDISULFONIC ACID, 4,4'-BIS[(4-ANILINO-6-MORPHOLINO-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			16090-02-1	N/A	N/A

SECTION 03 : HAZARDS IDENTIFICATION

NO DANGER CLASSIFICATION IN ACCORDANCE WITH THE EUROPEAN UNION GUIDELINES.

SECTION 04 : FIRST AID MEASURES

EYE CONTACT.....IN CASE OF CONTACT, IMMEDIATELY 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 ARTIFICIAL
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 SWEEPED OR VACUUMED UP IN TO A CONTAINERS AND
REMOVED TO AN AUTHORISED LAND-FILL. THE MATERIAL HAS A VERY
LOW

SOLUBILITY IN WATER AND IS NOT EASILY FLUSHED AWAY.

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.

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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.....**OFF WHITE POWDER**
 ODOR.....ODOURLESS
 BULK DENSITY.....1.0
 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.....**9.0-9.5**
 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

*ORAL LD 50 GREATER THAN 3000 MG/KG (RAT)
 *DERMAL LD 50 GREATER THAN 2000 MG/KG (RABBIT)
 *INHALATION ON LC 50 GREATER THAN 10000 MG/MTR CUBE (RAT)
 EYE EFFECT NON-IRRITANT (Draize test – Rabbit)
 SKIN EFFECT NON-IRRITANT (Directive 84/449/EEC,B.4 ‘Acute toxicity (skin irritation)’ (Rabbit)
 SENSITIZATION NOT SENSITIZING (OECD Guideline 406 ‘Skin Sensitization’) (Guinea Pig)
 CARCINOGENICITY OF MATERIAL. NOT APPLICABLE
 TERATOGENICITY..... NOT APPLICABLE
 MUTAGENICITY..... NEGATIVE (OECD Guideline 471 "Gene Toxicology: Salmonella typhimurium
 Reverse Mutation Assay". Type: Salmonella typhimurium reverse mutation assay)
 REPRODUCTIVE EFFECTS..... NOT APPLICABLE
 SYNERGISTIC MATERIALS..... NOT APPLICABLE
 * (BASED ON TEST RESULT FROM SIMILAR PRODUCTS)

SECTION 12 : ECOLOGICAL INFORMATION

FISH TOXICITY..... LC0 = 1-10 MG/L
 NOEC: = 179-185
 LC50: >350
 LC100:>350
 TEST SPECIES.....BRACHYDANIO RERIO
 TESTING TIME.....96 H
 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 EGULATIONS.

SECTION 14 : TRANSPORT INFORMATION

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

SECTION 15 : REGULATORY INFORMATION

SYMBOL AND CLASSIFYING.....NO MARKINGS REQUIRED
EU GUIDELINE.....1999/45/EC

SECTION 16 : OTHER INFORMATION

NOTE.....THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR
IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF
PARAMOUNT MINERALS AND CHEMICALS LIMITED. AND ASSUMES NO

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RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.

PREPARED BY.....HEALTH, ENVIRONMENT & SAFETY DEPT.

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PARAMOUNT MINERALS AND CHEMICALS LIMITED
33 OLD HANUMAN LANE, 1ST CROSS LANE, 2ND FLOOR, KALBADEVI ROAD, MUMBAI-400002. INDIA.
TEL:+9122-40982500 * FAX:+9122-22414108
Email: whitener@vsnl.com Website: www.pmclindia.com