

PARAMOUNT MINERALS AND CHEMICALS LIMITED

MATERIAL SAFETY DATA SHEET OF PARAWHITE VPM-AF LIQUID

SECTION 01 : PRODUCT IDENTIFICATION

MANUFACTURE.....PARAMOUNT MINERALS AND CHEMICALS LIMITED
33, OLD HANUMAN LANE, KALBADEVI ROAD, MUMBAI -400002 (INDIA)
TEL: 9122 - 2201 8562/56334471/56334472

PRODUCT NAME.....**PARAWHITE VPM-AF LIQUID**

PRODUCT USE.....TEXTILE INDUSTRY/PAPER

CHEMICAL FAMILY.....C.I. FLOURESCENT BRIGHTENER 113 PREPERATION OF
4,4'-BIS(1,2,3-TRIAZOL-2-YL)STILBENE-2,2 'DISULPHONIC ACID DERIVATIVE.

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			4193-55-9	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, 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 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..... N.A

AUTO IGNITION TEMPERATURE @..N.A

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.

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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.....LIQUID
ODOR.....MILD ODOUR
SPECIFIC GRAVITY CHECKED AT ROOM TEMPERATURE 25-30 DEG C.....1.18-1.20
ODOR THRESHOLD(ppm).....NOT AVAILABLE
VAPOUR PRESSURE(mm Hg).....N.A
VAPOUR DENSITY(AIR=1).....NOT AVAILABLE
EVAPORATION RATE.....NOT AVAILABLE
BOILING POINT(deg c).....ca. 100 deg C.
pH in 1% solution at 25-30 deg C8.50-9.50
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)..... 5000-10000 MG/KG (RAT)
IRRITANCY OF MATERIAL.....NON IRRITANT
SKIN SENSITIZING CAPABILITY OF.....NOT SENSITIZING- (GUINEA PIG OECD 406)
MATERIAL
CARCINOGENICITY OF MATERIAL..NOT AVAILABLE
TERATOGENICITY.....NOT AVAILABLE
MUTAGENICITY.....AMES TEST - NEGATIVE
REPRODUCTIVE EFFECTS.....NOT AVAILABLE
SYNERGISTIC MATERIALS.....NOT AVAILABLE

SECTION 12 : ECOLOGICAL INFORMATION

FISH TOXICITY.....LC50: >100mg/l
TEST SPECIES.....RAINBOW TROUT
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

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

SECTION 16 : OTHER INFORMATION

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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:+9122-40982590

E-mail: whitener@vsnl.com

Website: www.pmcindia.com