



514, 6th Floor, Adamji Bldg., 413, Narshi Natha Street, Mumbai - 400 009. (INDIA).

Tel. : 0091-22-2343 9093 | Fax : 0091-22-6634 9992 | E-mail : info@hajexports.com | Web : www.hajexports.com

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTITY AND COMPANY IDENTIFICATION

PRODUCT NAME :	HALSEAL WQ – 200
CHEMICAL CLASS :	WATER BASED ACRYLIC EMULSION
COLOUR INDEX GENERIC NAME	ACRYLIC / STYRENE EMULSION
COLOUR INDEX CONSTITUTION NUMBER	---
CHEMICAL TYPE	WATER HEAT SEAL
CAS REGISTRY NUMBER	---
MAJOR INDUSTRY SUITABILITY	COATINGS
MANUFACTURER	TELEPHONE NUMBERS
Haj Exports 6 TH FLOOR, 514 ADAMJI BLDG., 413 NARSI NATHA STREET, MUMBAI – 400 009. INDIA.	TEL: 91-22-23439093 FAX: 91-22-66349992

2. CHEMICAL COMPOSITION AND COMPONENTS

CHEMICAL NAME: ACRYLIC / STYRENE EMULSION.

HAZARDOUS INGREDIENTS:

THIS PRODUCT IS NOT CONSIDERED TO BE HAZARDOUS SUBSTANCE AS DEFINED UNDER OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

THIS PRODUCT IS A NON-VOLATILE SOLID AND PRACTICALLY INSOLUBLE IN WATER. NOT CONSIDERED TO BE FLAMMABLE OR EXPLOSIVE. HOWEVER, DUSTY CONDITIONS INCREASE THE RISK OF A DUST EXPLOSION HAZARD. WHEN INVOLVED IN A FIRE OR EXPOSED TO HIGH TEMPERATURE FOR AN EXTENDED PERIOD OF TIME, IT MAY BURN EVOLVING NOXIOUS FUMES, WHICH MAY INCLUDE OXIDES OF CARBON AND NITROGEN, HYDROGEN CHLORIDE AS WELL AS OTHER TOXIC GASES AND VAPOURS.

COMPOUNDS SIMILAR TO WATER BASED ACRYLIC RESINS HAVE A LOW ORDER OF TOXICITY, GREATER THAN 5,000 MG/KG IN ACUTE ORAL TOXICITY STUDIES IN RATS (LD50). THEY ARE NEITHER IRRITATING TO THE EYES NOR TO THE SKIN.

4. FIRST AID MEASURES

IF INHALED

REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT OR STOPS, GIVE ARTIFICIAL RESPIRATION.

ON SKIN CONTACT (OR ABSORPTION)

WASH WITH SOAP AND WATER.

ON CONTACT WITH EYES

WASH AFFECTED EYES FOR AT LEAST 15 MINUTES UNDER RUNNING WATER.

ON INGESTION

DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING.

IN ALL CASES, MEDICAL ATTENTION IS RECOMMENDED.



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5. FIRE FIGHTING MEASURES

NONFLAMMABLE ORGANIC PIGMENT PRODUCT.

SUITABLE EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL OR FOAM RECOMMENDED. APPLY WATER SPRAY TO COOL EXPOSED CLOSED CONTAINERS.

FIREFIGHTING EQUIPMENT

USE SELF-CONTAINED BREATHING APPARATUS.

FIRE AND EXPLOSION HAZARDS

FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. UNDER CONDITIONS OF EXCESSIVE AND PROLONGED HEATING AT TEMPERATURES ABOVE 200°C, THIS PRODUCT MAY HAVE THE POTENTIAL OF "SELF-COMBUSTION".

GENERAL HAZARD

IMPROPER HANDLING OF ANY FINELY DIVIDED ORGANIC PIGMENT POWDER MAY ENTAIL DUST CLOUD FORMATION WITH CONSEQUENT EXPLOSION HAZARD.

FLAMMABILITY DATA:

FLASH POINT

NONFLAMMABLE MATERIAL.

FLAMMABILITY LIMITS IN AIR-LOWER AND AIR-HIGHER

NOT KNOWN.

AUTOIGNITION TEMPERATURE

NOT KNOWN.

<u>RATINGS</u>	<u>NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)</u>	<u>HAZARDOUS MATERIAL IDENTIFICATION SYSTEM HMIS)</u>
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0

(1 = SLIGHT; 0 = MINIMAL)

6. ACCIDENTAL RELEASE MEASURES:

SPILLAGE

DAMPEN THE MATERIAL WITHOUT CREATING A DUST. SWEEP OR VACUUM AND PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. AIR BORNE ORGANIC PIGMENT DUST MAY BE AN EXPLOSION HAZARD. SECURE POSSIBLE SOURCES OF IGNITION AND AVOID DUSTING.

7. HANDLING AND STORAGE:

HANDLING

HANDLE WITH CARE AND AVOID EMPLOYEE EXPOSURE WITH APPROPRIATE CONTROL MEASURES AND GOOD INDUSTRIAL HYGIENE PRACTICES. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

STORAGE

KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE AWAY FROM DIRECT SOURCES OF HEAT. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES AND SHOULD BE HANDLED APPROPRIATELY. POSITION CONTAINERS SO THAT ANY LABELING INFORMATION IS VISIBLE.



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS

THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED. TAKE APPROPRIATE PRECAUTIONS INCLUDING A PROPERLY GROUNDED DUST COLLECTION SYSTEM.

PERSONAL PROTECTION

USE PROTECTIVE GLOVES AS A STANDARD INDUSTRIAL HANDLING PROCEDURE. WEAR IMPERVIOUS CLOTHING WHEN GROSS CONTACT IS LIKELY.

RESPIRATORY PROTECTION

WEAR NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) APPROVED DUST RESPIRATOR FOR POTENTIALLY DUSTY HANDLING OPERATIONS.

EYE PROTECTION

USE SAFETY GLASSES OR GOGGLES TO PROTECT AGAINST DUST PARTICLES.

EXPOSURE LIMITS

OSHA PEL'S AND AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) TLV'S ARE NOT ESTABLISHED. THE RECOMMENDED PERMISSIBLE EXPOSURE LIMIT (PEL) FOR NUISANCE DUST IS 15 MG/M³ (TOTAL DUST) AND 5 MG/M³ (RESPIRABLE DUST, 29 CFR 1910.1000). THE RECOMMENDED THRESHOLD LIMIT VALUE (TLV) FOR NUISANCE DUST IS 10 MG/M³.

9. PHYSICAL AND TECHNICAL PROPERTIES:

APPEARANCE	CLEAR SOLUTION
SOLIDS	25 ± 2%
PH	8.5 TO 9
ODOUR	AMONICAL
PACKING	200 KGS BARRELS

10. STABILITY AND REACTIVITY

GENERAL

THIS PRODUCT IS A STABLE COMPOUND. SHELF LIFE IS UNLIMITED (IF PROPERLY STORED).

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

INCOMPATIBILITY

NOTHING IN PARTICULAR. AVOID STRONG OXIDIZING AGENTS LIKE PEROXIDES, CHLORATES, PERCHLORATES, NITRATES AND PERMANGANATES.

DECOMPOSITION TEMPERATURE

NOT KNOWN.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NONE, PROVIDED PRODUCT IS CORRECTLY PROCESSED. HOWEVER, BURNING MAY EVOLVE OXIDES OF CARBON AND NITROGEN AND HYDROGEN CHLORIDE AS WELL AS OTHER NOXIOUS GASES, WHICH ARE TOXIC AND MUST BE REMOVED FROM THE FLUE GAS BY APPROPRIATE MEANS.



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11. TOXICOLOGICAL INFORMATION

GENERAL

ORGANIC PIGMENTS ARE CONSIDERED AS PRACTICALLY NON-TOXIC DUE TO THE FACT THAT THEY ARE HIGHLY INERT AND INSOLUBLE SUBSTANCES, WITH A NEAR ABSENCE OF PHYSICAL HAZARDS UNDER NORMAL STANDARDS OF GOOD INDUSTRIAL HYGIENE.

ACUTE TOXICITY LD50/ORAL/RATS

Y 5000 MG/KG (NON TOXIC AS DEFINED BY FHSA 16 CFR 1500.3, NOT HAZARDOUS AS DEFINED BY OSHA 29 CFR 1916.25)

CARCINOGENICITY

THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED AS CARCINOGENS BY NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) OR OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

MUTAGENICITY

IN VITRO SCREENING TESTS FOR MUTAGENICITY HAD REPORTED NEGATIVE RESULTS. VERY FEW PIGMENTS HAVE BEEN REPORTED TO BE MUTAGENIC.

TERATOGENICITY

NOT KNOWN.

12. ECOLOGICAL INFORMATION

BEHAVIOUR AND ENVIRONMENTAL FATE

BEING CHEMICALLY INERT AND PRACTICALLY INSOLUBLE IN WATER, ORGANIC PIGMENTS ARE NOT ENVIRONMENTALLY HAZARDOUS. THEY MAY BE VIRTUALLY REMOVED FROM WASTEWATER MECHANICALLY IN SUITABLE EFFLUENT TREATMENT PLANTS.

TOXICITY TO FISH LC50

DUE TO THEIR NEGLIGIBLE SOLUBILITY, ORGANIC PIGMENTS ARE NONTOXIC TO FISH, AT LEAST THERE IS NO EVIDENCE TO THE CONTRARY.

BIOLOGICAL DEGRADATION

THEY HAVE MINIMAL BIOACCUMULATION AND BIOAVAILABILITY CHARACTERISTICS. THEREFORE, THEY ARE NEITHER BIODEGRADABLE NOR RETAINED IN SOIL OR WATER.

INHIBITION OF WASTEWATER (BACTERIA)

NOT KNOWN.

13. DISPOSAL CONSIDERATIONS

GENERAL

DISPOSE (DUMP OR INCINERATE) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

WASTE MANAGEMENT

CONTACT THE STATE OR LOCAL ENVIRONMENTAL AGENCY FOR SPECIFIC RULES.

THIS PRODUCT IS NOT IDENTIFIED AS A RCRA HAZARDOUS WASTE (40 CFR 261.24) AND IS NOT REGULATED UNDER CERCLA (SUPERFUND).



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14. TRANSPORT INFORMATION

CLASSIFICATION OF DANGEROUS GOODS

THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS UNDER THE RELEVANT EU DIRECTIVES AND DEPARTMENT OF TRANSPORT (DOT) REGULATIONS. THUS, IT IS NOT HAZARDOUS UNDER TRANSPORT REGULATIONS.

SHIPPING NAME (49 CFR 172.101-102) :	NOT REGULATED
HAZARD CLASS (49 CFR 172.101-102) :	NONE
LABEL :	NONE
PLACARD :	NONE
BILL OF LADING DESCRIPTION :	PIGMENTS NOI DRY
CERCLA SUBSTANCE (49 CFR) :	NOT REGULATED

INTERNATIONAL

IMDG/IACO CLASSIFICATION :	NOT REGULATED
UN/NA NUMBER :	NOT REGULATED
IATA CLASSIFICATION :	NOT REGULATED

15. REGULATORY INFORMATION

REGULATED CONSTITUENTS

NONE.

CLASSIFICATION, PACKAGING AND LABELING

NOT CLASSIFIED AS DANGEROUS FOR SUPPLY OR CONVEYANCE UNDER REGULATIONS- AMENDED EEC DIRECTIVES 67/548, 77/728, 88/379 AND 91/155. THIS PRODUCT IS IN COMPLIANCE WITH CONEG MODEL LEGISLATION FOR PACKAGING AND PACKAGING INK COMPONENTS.

HEAVY METAL CONTENT

ORGANIC PIGMENTS DO NOT CONTAIN ANY LEAD, CADMIUM, CHROMIUM (VI), MERCURY COMPOUNDS, ETC IN THEIR FORMULATIONS. HOWEVER, EACH GRADE OF PIGMENT CONTAINS HEAVY METALS IN LIMITS PERMISSIBLE IN DIFFERENT COUNTRIES. FOR DETAILS, PLEASE CONTACT US AND/OR REFER TO OUR PRODUCT TECHNICAL DATA SHEET.

PRIMARY AROMATIC AMINES

ORGANIC PIGMENTS DO NOT CONTAIN CARCINOGENIC AMINE COMPONENTS THAT CAN BE RELEASED DURING METABOLISM. AZO PIGMENTS ARE NOT BANNED BY THE GERMAN ORDINANCE ON MATERIALS AND ARTICLES AS PER THE 5TH AMENDMENT DATED APRIL 1997 OR OTHER NATIONAL REGULATIONS, IF THE FINISHED PRODUCT YIELDS LESS THAN 30 MG INDIVIDUAL LISTED AMINE/KG CONSUMER GOOD AND THIS PRODUCT MEETS THE SPECIFICATIONS.

FOOD PACKAGING AND TOYS SUITABILITY

SUITABILITY OF COLOURANTS FOR FOOD CONTACT AND TOY USE DEPENDS ON THE INDIVIDUAL COUNTRY'S LAWS AND REGULATIONS CONFORMING TO THE DEMANDS ON PURITY IN FOOD LEGISLATION BESIDES ABSENCE OF MIGRATION. FOR VARIOUS GRADES AND SPECIFIC COUNTRY, PLEASE CONTACT US AND/OR REFER TO OUR PRODUCT TECHNICAL DATA SHEET.

Toys

THIS PRODUCT CONFORMS TO THE NORMS OF VARIOUS COUNTRIES. FOR DETAILS, PLEASE CONTACT US AND/OR REFER TO OUR PRODUCT TECHNICAL DATA SHEET.

REGISTRATION STATUS

THE COMPONENTS OF THIS PRODUCT ARE LISTED IN THE CHEMICAL INVENTORIES OF EUROPEAN UNION (EINECS) AND JAPAN (ENCS).



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OTHER LEGISLATION ON CHEMICALS:

CHEMICALS WEAPONS CONVENTION (CWC)

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES LISTED UNDER THE CWC SCHEDULE OF CHEMICALS.

OZONE DEPLETING SUBSTANCES (ODS)

THIS PRODUCT NEITHER CONTAINS NOR IS MANUFACTURED WITH ODS THAT DESTROY OZONE (40 CFR 82, SUBPT. A, APP. A+B).

SUPERFUND AMENDMENTS AND REAUTHORISATION ACT (SARA) TITLE III

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS REGULATED UNDER SECTIONS 302 (40 CFR 355), 304 (40 CFR 302), 311/312 (40 CFR 370) AND 313 (40 CFR 372) AS HAZARDOUS AND TOXIC CHEMICALS.

NEW JERSEY RIGHT-TO-KNOW

THIS PRODUCT IS NOT ON THE CAPTIONED HAZARDOUS SUBSTANCE LIST.

CALIFORNIA PROPOSITION 65

NOT REPORTED IN THE LIST OF KNOWN CARCINOGENS AND REPRODUCTIVE TOXINS.

POLYCHLORINATED BIPHENYLS (PCB'S)

CONCENTRATIONS MAY VARY FROM NON-DETECTABLE TO 25 MG/KG PRODUCED INADVERTENTLY DURING MANUFACTURE AND PROCESSING.

16. OTHER INFORMATION

FOR ANY FURTHER INFORMATION, PLEASE CONTACT:

ADDRESS:

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