



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

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## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTITY AND COMPANY IDENTIFICATION

PRODUCT NAME :	METHYL METHACRYLATE / N-BUTYL METHACRYLATE COPOLYMER- HAJCRYL 10
CHEMICAL CLASS :	RESINS
MAJOR INDUSTRY SUITABILITY :	INDUSTRIAL INKS / PAINTS / LACQUERS ETC.
MANUFACTURER	TELEPHONE NUMBERS
<b>Haj Exports</b> 6 <sup>TH</sup> 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:** METHYL METHACRYLATE / N-BUTYL METHACRYLATE COPOLYMER- HAJCRYL 10

**C.A.S NO. :** 9005-09-8

### 3. HAZARDS IDENTIFICATION

**3.1 CLASSIFICATION:**

R-PHASE DESCRIPTION R- -

**3.2 FURTHER HAZARDS TO MAN AND ENVIRONMENT:**

RISK OF DUST EXPLOSION.

### 4. FIRST AID MEASURES

**4.1 GENERAL INFORMATION:**

UNDER ORDINARY WORKPLACE CONDITIONS: NO SPECIAL MEASURES REQUIRED.

**4.2 AFTER INHALATION:**

PROVIDE FRESH AIR.

**4.3 AFTER CONTACT WITH THE SKIN:**

WASH WITH PLENTY OF WATER OR WATER AND SOAP.

**4.4 AFTER CONTACT WITH THE EYES:**

RINSE IMMEDIATELY WITH PLENTY OF WATER. SEEK MEDICAL ADVICE IN CASE OF CONTINUOUS IRRITATION.

**4.5 AFTER SWALLOWING:**

NO SPECIAL MEASURES REQUIRED. IN CASES OF SICKNESS SEEK MEDICAL ADVICE (SHOW LABEL IF POSSIBLE).

**4.6 ADVICE FOR THE PHYSICIAN:**

DUE TO ITS PHYSICAL PROPERTIES, MAY CAUSE MECHANICAL IRRITATION.

IN ALL CASES, MEDICAL ATTENTION IS RECOMMENDED.



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### 5. FIRE FIGHTING MEASURES

**5.1** SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY, WATER MIST, EXTINGUISHING POWDER, FOAM, CARBON DIOXIDE.

**5.2** EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: WATER JET.

**5.3** SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES: HAZARDOUS COMBUSTION PRODUCTS: HYDROGEN CHLORIDE.

**5.4** SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: USE RESPIRATORY PROTECTION INDEPENDENT.

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

### 6. ACCIDENTAL RELEASE MEASURES:

**6.1** PERSONAL PRECAUTIONS:

AVOID DUST FORMATION. DO NOT BREATHE DUST.

**6.2** ENVIRONMENTAL PRECAUTIONS:

COVER ANY SPILLED MATERIAL IN ACCORDANCE WITH REGULATIONS TO PREVENT DISPERSAL BY WIND.

**6.3** METHODS FOR CLEANING UP:

TAKE UP MECHANICALLY AND DISPOSE OF ACCORDING TO LOCAL/STATE/FEDERAL REGULATIONS.

**6.4** FURTHER INFORMATION:

ELIMINATE ALL SOURCES OF IGNITION. OBSERVE NOTE UNDER SEC 7

### 7. HANDLING AND STORAGE:

**7.1** HANDLING PRECAUTIONS FOR SAFE HANDLING:

AVOID DUST FORMATION.

**7.2** PRECAUTIONS AGAINST FIRE AND EXPLOSION:

FINE DUST MAY FORM EXPLOSIVE MIXTURE WITH AIR. KEEP AWAY FROM OPEN FLAMES, HEAT AND SPARKS. AVOID DUST DEPOSIT, REMOVE DUST REGULARLY. DO NOT REMOVE SHRINK FILM IN HAZARDOUS LOCATIONS (BECAUSE OF RISK OF STATIC CHARGING/DISCHARGE). TAKE PRECAUTIONARY MEASURES AGAINST ELECTROSTATIC CHARGING.

**7.3** STORAGE CONDITIONS FOR STORAGE ROOMS AND VESSELS:

OBSERVE PRECAUTIONARY MEASURES AGAINST DUST EXPLOSION.

**7.4** ADVICE FOR STORAGE OF INCOMPATIBLE MATERIALS:

NOT APPLICABLE.

**7.5** FURTHER INFORMATION FOR STORAGE:

NOT APPLICABLE.



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### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1 EXPOSURE LIMITS –

#### 8.2 EXPOSURE LIMITED AND CONTROLLED

##### 8.2.1 EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED

GENERAL PROTECTION AND HYGIENE MEASURES: DO NOT BREATHE DUST. DO NOT EAT, DRINK OR SMOKE WHEN HANDLING.

PERSONAL PROTECTION EQUIPMENT RESPIRATORY PROTECTION: IN CASE OF DUST FORMATION: FINE DUST MASK WITHOUT PROTECTION RATING.

HAND PROTECTION: RECOMMENDATION: RUBBER GLOVES.

EYE PROTECTION: RECOMMENDATION IN CASE OF DUST FORMATION: TIGHT FITTING PROTECTIVE GOGGLES.

##### 8.2.2 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED: PREVENT MATERIAL FROM ENTERING SURFACE WATERS AND SOIL.

#### 8.3 FURTHER INFORMATION FOR SYSTEM DESIGN AND ENGINEERING MEASURES: OBSERVE REGULATIONS FOR PROTECTION AGAINST EXPLOSION.

### 9. PHYSICAL AND TECHNICAL PROPERTIES:

PHYSICAL PROPERTIES			
THE FOLLOWING ARE TYPICAL, BUT SHOULD NOT BE CONSIDERED AS SPECIFICATIONS.			
APPEARANCE	POWDER	VISCOSITY, BROOKFIELD CPS	
SOLIDS, BY MASS, %	100.0	(40% SOLUTION IN XYLENE @ 25 <sup>0</sup> C	590
SOLIDS, BY VOLUME, %	100.0		
DENSITY @ 25 <sup>0</sup> C, KG/LITRE	1.10	SOLUBILITY PARAMETER	9.0
GLASS TRANSITION TEMPERATURE (Tg), MEASURED BY DSC, <sup>0</sup> C (ONSET)	50	ULTIMATE HARDNESS OF CLEAR FILM (KHN)	12 – 13

### 10. STABILITY AND REACTIVITY

**10.1** GENERAL INFORMATION: IF STORED AND HANDLED IN ACCORDANCE WITH STANDARD INDUSTRIAL PRACTICES NO HAZARDOUS REACTIONS ARE KNOWN.

**10.2** CONDITIONS TO AVOID: NONE KNOWN .

**10.3** MATERIALS TO AVOID: NONE KNOWN .

**10.4** HAZARDOUS DECOMPOSITION PRODUCTS: IF STORED AND HANDLED IN ACCORDANCE WITH STANDARD INDUSTRIAL PRACTICES AND LOCAL REGULATIONS WHERE APPLICABLE: NONE KNOWN .



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### 11. TOXICOLOGICAL INFORMATION

- 11.1 GENERAL INFORMATION: ACCORDING TO PRESENT EXPERIENCE, THE MATERIAL IS PHYSIOLOGICALLY COMPATIBLE.
- 11.2 TOXICOLOGICAL TESTS FURTHER INFORMATION:
- 11.3 EXPERIENCE WITH MAN: BY HANDLING THE PRODUCT FOR MANY YEARS NO DAMAGE TO HEALTH WAS OBSERVED.
- 11.4 FURTHER TOXICOLOGICAL INFORMATION:

### 12. ECOLOGICAL INFORMATION

- 12.1 ECOTOXICITY: NO EXPECTED DAMAGING EFFECTS TO AQUATIC ORGANISMS.
- 12.2 MOBILITY: INSOLUBLE IN WATER.
- 12.3 PERSISTENCE AND DEGRADABILITY:
  - BIODEGRADATION / FURTHER INFORMATION: BIOLOGICALLY NOT DEGRADABLE.
  - FURTHER INFORMATION: INSOLUBLE IN WATER. POLYMER COMPONENT: ELIMINATION BY ADSORPTION TO ACTIVATED SLUDGE.
- 12.4 BIO-ACCUMULATION POTENTIAL: NO ADVERSE EFFECTS EXPECTED.
- 12.5 OTHER HARMFUL EFFECTS: -
- 12.6 ADDITIONAL INFORMATION:
  - GENERAL INFORMATION: ACCORDING TO PRESENT KNOWLEDGE NO ADVERSE INFLUENCE TO ENVIRONMENT EXPECTED.

### 13. DISPOSAL CONSIDERATIONS

- 13.1 MATERIAL RECOMMENDATION: INCINERATION OR DEPOSIT TOGETHER WITH DOMESTIC WASTE IS POSSIBLE. OBSERVE LOCAL/STATE/FEDERAL REGULATIONS.
- 13.2 UNCLEANNED PACKAGING RECOMMENDATION: COMPLETELY DISCHARGE CONTAINERS (NO TEAR DROPS, NO POWDER REST, SCRAPED CAREFULLY). CONTAINERS MAY BE RECYCLED OR RE-USED. OBSERVE LOCAL/STATE/FEDERAL REGULATIONS.  
RECOMMENDED CLEANING AGENT: WATER .

### 14. TRANSPORT INFORMATION

- 14.1 LAND TRANSPORT ADR AND RID: ROAD ADR: VALUATION.....: NOT REGULATED FOR TRANSPORT  
RAILWAY RID: VALUATION.....: NOT REGULATED FOR TRANSPORT
- 14.2 TRANSPORT BY SEA IMDG-CODE: VALUATION.....: NOT REGULATED  
FOR TRANSPORT MARINE POLLUTANT.....: NO
- 14.3 AIR TRANSPORT ICAO-TI/IATA-DGR : VALUATION.....: NOT REGULATED FOR TRANSPORT



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### 15. REGULATORY INFORMATION

**15.1**WARNING LABEL (EC) R-PHRASE DESCRIPTION R- - S-PHRASE DESCRIPTION S- -

**15.2**NATIONAL REGULATIONS:

**15.3**OTHER INTERNATIONAL REGULATIONS DETAILS OF INTERNATIONAL REGISTRATION STATUS

LISTED ON OR IN ACCORDANCE WITH THE FOLLOWING INVENTORIES: IECSC - CHINA

PICCS - PHILIPPINES

ECL - KOREA

EINECS - EUROPE

DSL - CANADA

TSCA - USA

ENCS - JAPAN

AICS – AUSTRALIA

### 16. OTHER INFORMATION

**16.1**MATERIAL: THE ABOVE INFORMATION DESCRIBES EXCLUSIVELY THE SAFETY REQUIREMENTS OF THE PRODUCT(S) AND IS BASED ON OUR PRESENT-DAY KNOWLEDGE. IT DOES NOT REPRESENT A GUARANTEE FOR THE PROPERTIES OF THE PRODUCT(S) DESCRIBED IN TERMS OF THE LEGAL WARRANTY REGULATIONS. PROPERTIES OF THE PRODUCT ARE TO BE FOUND IN THE RESPECTIVE PRODUCT LEAFLET.

**16.2**FURTHER INFORMATION: COMMAS APPEARING IN NUMERICAL DATA DENOTE A DECIMAL POINT. VERTICAL LINES IN THE LEFT-HAND MARGIN INDICATE CHANGES COMPARED WITH THE PREVIOUS VERSION. THIS VERSION SUPERSEDES ALL PREVIOUS VERSIONS

FOR ANY FURTHER INFORMATION, PLEASE CONTACT:

ADDRESS:

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