MATERIAL SAFETY DATA SHEET



RARHXC8

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

IDENTITY (As used on label and list) : RARHXC8

1.2 IDENTIFICATION OF THE COMPANY:

RAR Resin & Chemical Industries JLT11th Floor, Jumeirah Lake Towers, P.O. Box: 47381, Dubai UAETel: +971 4 4356516 / +971 4 4356517Email: info@rarresin.comFax: +971 4 4356518Website: www.rarresin.com

2 COMPOSITION INFORMATION

Component	CAS#	%W/W	Hazard
METHYL HYDROXYETHYL			
CELLULOSE	9032-42-2	>= 82.4%	WHMIS: not hazardous
Sodium acetate	127-09-3	<= 9.6%	WHMIS: not hazardous
Water	7732-18-5	<=5%	WHMIS: not hazardous
CELLULOSE	9004-34-6	<=1%	WHMIS: not hazardous

3 HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance	White
Physical State	Powder
Odor	Mild

3.2 POTENTIAL HEALTH EFFECTS Potential Effects of a Single Acute Exposure

Inhalation	: Dust may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge.
Eye Contact	: Dust may cause discomfort in the eye and slight excess redness of the conjunctiva.
Skin Contact	: No evidence of harmful effects from available information.
Skin Absorption	: No evidence or harmful effects from available information.
Swallowing	: No evidence of harmful effects from available information.

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

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4 FIRST AID MEASURES

4.1 Inhalation	: Remove to fresh air
4.2 Eye Contact	: Immediately flush eyes with water and continue washing for several minutes.
	Remove contact lenses, if worn. Obtain medical attention if discomfort persists.
4.3 Skin Contact	: Wash skin with plenty of water
4.4 Swallowing	: If a large quantity (several ounces) has been swallowed, and if patient id fully conscious, give two glasses of water. This should be done only by medical or experienced first- aid personnel.
4.5 Notes to Physicial	n: Toxicology sstudies have shown this or similar material to be of very low acute. There is no specific antidote.

5 FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES - REFER TO SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES 5.2 EXTINGUISHING MEDIA

Apply water spray (fog), alcohol- type or all- purpose-type foams by manufacturer's recommended techniques for large fires. Use CO2 or dry chemical media for small fires.

5.3 FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Use self- contained breathing apparatus and protective clothing

6 ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material id Release or Spilled:

FOR SPILL: Cover with absorbent, sweep up, collect and dispose immediately. Will absorb moisture and become slippery.

Personal Precautions: Wear suitable protective equipment. See Section 8.2 - Personal Protection.

7 HANDLING AND STORAGE

7.1 HANDLING

General Handling

Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Avoid heat, sparks and flame under dust conditions. Clean up spills. Keep container closed. Store and use with adequate ventilation. Wash thoroughly after handling.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS	Component Exposure Limits	Skin. Form
Sodium Chloride	10 mg/m3 TWA8	
METHYL CELLULOSE	10 mg/m3 TWA8 ACGIH	

Consult local authorities for recommended exposure limits. in the exposure Limits chart above, if there is no specific qualifier (i.e, Aerosol) listed in the Form Column for a particular limit, the listed limit ludes all airborne forms of the substance that can be inhaled.

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9 PHYSICAL AND CHEMICAL PROPERTIES

SIGAL AND OTHERIOAL FROFE	
Physical State	: Powder
Appearance	: White
Odor	: Mild
Flash Point - Closed cup	: No test data available.
Flammable limits In Air	: Lower No test Data available. Upper No test data available.
Autoignition Tempertaure	: 400°C 752°F ASTM
Vapor Pressure	: No test data available
Boiling Point (760 mmHg)	: Notest data available
Specific Gravity (H2O= 1)	: Not applicable.
Bulk density	: 0.4 - 0.6 g/cm3 25 - 37 lb/ft ³
Freezing Point	: Notest data available
Melting Point	: > 200°C > 392°F Decomposes
Slubility in Water (by weight)	: No test data available
рН	: No test data available
Molecular Weight	: > 60000 g/ mol
Percent Volatiles	: ~ 5.0 Wt %

10 STABILITY AND REACTIVITY

10.1 STABILITY/ INSTABILITY	: Stable
HAZARDOUS POLYMERIZATION	: Will not occur
11 TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY Per Oral	: Rat = 12.5 g/ kg ; 20% suspension in corn oil.
Mortality	: 0/5
Major Signs	: sluggishness
Gross Pathology	: None.
Percutaneous	: Rabbit = 4 g/kg ; test material moistened with water; 24 h ocluded.
Moratality: 0/5 Major Signs	: None
Gross Pathology	: None
INHALATION Sodium Chloride	: Rat; 1 h; LC50 = > 30 g/m ³
Toxicology for the component	
IRRITATION	
Skin	: Rabbit; 24 h uncovered; 2% suspension in water Results : no irritation
Eye	: Rabbit; 0.5 ml; 2% suspension in water Results: no irritation
Eye	: 40 mg; powder Results : no corneal injury

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

Pharmacokinetic and material balance studies have shown that only minor amounts of METHYL HYDROXYETHYL

CELLULOSE penetrate the skin under single sustained occluded conditions of cutaneous contact.

12 ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE Information maybe available, call RAR Resin & Chemical Industries. 12.2 ECOTOXICITY Information maybe available, call RAR Resin & Chemical Industries. 12.3 FURTHER INFORMATION None.

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13 DISPOSAL CONSIDERATIONS

13.1 DISPOSAL

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Fideral, State/Provial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

14 TRANSPORT INFORMATION

14.1 TDG

SMALL CONTAINER Proper Shipping Name: NOT REGULATED

LARGE CONTAINER Proper Shipping Name: NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. **IMDG NOT REGULATED**.

15 REGULATORY INFORMATION

Labelling in accordance with EC-Directives Hazard warning labeling not compulsory

16 OTHER INFORMATION

16.1 ADDITIONAL INFORMATION
 ADDITIONAL INFORMATION: Additional product safety information on this product maybe obtained by calling RAR Resin & Chemical Industries.
 16.2 RECOMMENDED USES AND RESTRICTIONS
 Thickener, binder, stabilizer,film former, protective colloid
 FOR INDUSTRY USE ONLY

NOTICE: RAR Resin & Chemical Industries urges each customer or recipient of this MSDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazard associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given., Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provial or local laws.

The information presented here pertains only to the product as shipped. Se conditions for use of the product are not under the control of RAR Resin & Chemical Industries, it is the buyer's/user's duty to determine the conditions neccessary for the safe use of this product.