

## Maleimide-Activated KLH

### Activated Carrier

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Material Safety Data Sheet

#### 1 - Company Information

##### Adar Biotech

Date Updated: 21/sept/2004

Version 1.3

According to 91/155/EEC

Product Catalog Number 1027- 2/10

Company Location: 27 Yavne Rd. 76360 REHOVOT, ISRAEL

Technical support Phone # 972 8 9468176

#### 2 - Composition/Information on Ingredients

Index Number

Maleimide-Activated KLH

ETHYL ALCOHOL up to 1 %

NON-DENATURED, 200 PROOF

Symbols: F

R-Phrases: 11

Highly flammable.

#### 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Flammable. Irritating to eyes, respiratory system and skin.

#### 4 - First Aid Measures

##### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

##### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

##### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

##### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### 5 - Fire Fighting Measures

##### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

##### SPECIAL RISKS

Specific Hazard(s): Combustible liquid. Emits toxic fumes under fire conditions.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

#### 7 - Handling and Storage

##### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

##### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame.

Store at 2-8°C

#### 8 - Exposure Controls / Personal Protection

##### ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

##### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

##### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Skin Protection: Chemical resistant apron.

## 9 - Physical and Chemical Properties

Appearance Physical State: cloudy whitish Liquid  
Property Value At Temperature or Pressure  
pH N/A  
BP/BP Range N/A  
MP/MP Range N/A  
Flash Point N/A  
Flammability N/A  
Auto ignition Temp N/A  
Oxidizing Properties N/A  
Explosive Properties N/A  
Explosion Limits N/A  
Vapor Pressure N/A  
SG/Density N/A  
Partition Coefficient N/A  
Viscosity N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
Evaporation Rate N/A  
Bulk Density N/A  
Decomposition Temp. N/A  
Solvent Content N/A  
Water Content N/A  
Surface Tension N/A  
Conductivity N/A  
Miscellaneous Data N/A  
Solubility N/A

## 10 - Stability and Reactivity

STABILITY  
Stable: Stable.  
Conditions to Avoid: NA.  
Materials to Avoid: NA  
HAZARDOUS DECOMPOSITION PRODUCTS  
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.  
HAZARDOUS POLYMERIZATION  
Hazardous Polymerization: Will not occur

## 11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE  
Can cause CNS depression. Exposure can cause: Nausea, headache, and vomiting. Narcotic effect. Damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
ROUTE OF EXPOSURE  
Skin Contact: May cause skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: May cause eye irritation.  
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.  
Ingestion: May be harmful if swallowed.  
TARGET ORGAN INFORMATION  
Nerves. Liver.

## 12 - Ecological Information

No data available.

## 13 - Disposal Considerations

SUBSTANCE DISPOSAL  
Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## 14 - Transport Information

RID/ADR  
Non-hazardous for road transport.  
IMDG  
Non-hazardous for sea transport.  
IATA  
Non-hazardous for air transport.

## 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
INDICATION OF DANGER: Xi  
Irritant.  
Flammable. Irritating to eyes, respiratory system and skin. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

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