







PT. Eternal Buana Chemical Industries  
JL. Raya Serang Km. 14  
Cikupa, Tangerang, Indonesia

No. : EBCI/MSDS/3043  
Issue date : Sept 01, 2004  
Rev. no. :-  
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Page no. : 1 of 3

## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

 Trade Name : EBL - 6300  
 Chemical Name : N-Methylolacrylamide  
 Synonyms : None  
 Molecular Formula : Mixture  
 Molecular WGT : Mixture

### II. COMPOSITION / INFORMATION ON INGREDIENT

COMPONENT	CAS NO	CONCENTRATION (WT % )	RISK PHRASES
N-Methylolacrylamide	000924-42-5	≤ 45	R22
Acrylamide	000079-06-1	< 5	R45-46-24/25-48/23/24/25
Formaldehyde	000050-00-00	≤ 2	R23/24/25-34-40-43

### III. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Aqueous liquid, clear, yellow to pink, slight formaldehyde odor.

#### STATEMENTS OF HAZARD:

WARNING ! MAY CAUSE ALLERGIC SKIN REACTION  
CAUSES EYE IRRITATION  
POLYMERIZATION MAY OCCUR FROM EXCESSIVE HEAT OR CONTAMINATION

#### CHRONIC HAZARD WARNING:





CHRONIC TOXICITY HAZARD. CONTAIN MATERIALS WHICH MAY CAUSE NERVOUS SYSTEM DAMAGE. POTENTIAL CANCER HAZARD-CONTAIN FORMALDEHYDE AND OTHER MATERIALS WHICH CAUSED CANCER IN LABORATORY ANIMAL TEST. ACRYLAMIDE CAUSED MALE REPRODUCTIVE DISORDERS IN LABORATORY ANIMAL TEST. RISK DEPENDS ON DURATION AND LEVEL OF EXPOSURE.






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Page no. : 2 of 3

#### IV. FIRST AID MEASURES

-  First aid procedures - eyes : Immediately rinse with running water for 15 minutes. Get medical attention, if irritation develops.
-  First aid procedures - skin : Wash affected areas with soap and water. Get medical attention, if irritation develops.
-  First aid procedures – ingestion : Dilute with water if swallowed.
-  First aid procedures – inhalation : Remove to fresh air. If not breathing gives artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen and seek prompt medical attention.

#### V. FIRE FIGHTING MEASURES

-  Flash Point : >200 F, 93 °C
-  Methode : Closed cup
-  Flammable Limits
- % By Vol : Not available
- AUTOIGNITION TEMP : Not available
- DECOMPOSITION TEMP : Not available

#### EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water spray, carbon dioxide or dry chemical to extinguish fires. Use water to keep containers cool. Wear self-contained, positive pressure breathing apparatus and full fire-fighting protective clothing. See section VIII.

#### VI. ACCIDENTAL RELEASE MEASURES

##### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED




Action to take spills : (Use appropriate safety equipment).

Use absorbent material to collect and contain for disposal. Contain large spills and pump into suitable tank. Wash the area with water and thoroughly rinse.

#### VII. STORAGE AND HANDLING

Store in well ventilated areas at temperature below 120 °F. Keep container tightly closed. Do not store or consume food, drink, or tobacco in area where they may become contaminated with this material.

#### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

-  Ventilation :
  - 1. Local exhaust : None should be needed
  - 2. Respiratory protection (type) : Canister for organic vapors (i.e. type GMA from Mine Safety Appliance Co.)
-  Protective Clothing : clean, body-covering clothing. In addition, rubber gloves, boots and apron, depending upon the exposure likely, or as required by your company).
-  Eye Protection : Safety goggles recommended.



## IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	: Aqueous liquid, clear, yellow to pink, slight formaldehyde odor.
BOILING POINT ( °C )	: 100
MELTING POINT	: Not available
VAPOR PRESSURE	: Similiar to Water
SPECIFIC GRAVITY	: 1.075 – 1.080 g/cm <sup>3</sup> at 30 ° C
VAPOR DENSITY	: Similiar to Water
% VOLATILE ( BY VOLUME )	: 48 %
pH	: 6.5 – 7.5
SATURATION IN AIR ( % BY VOL )	: Not available
EVAPORATION RATE	: Similiar to water
SOLUBILITY IN WATER	: Complete
VOLATILE ORGANIC CONTENT	: Not available

## X. STABILITY AND REACTIVITY

Stability	: Stable
Condition to avoid	: Unstable if not maintained under recommended conditions. Avoid temperatures above 90 °F, initiator such as bisulfites, peroxides, reducing agents Oxidizing agent and redox systems. Prevent loss of dissolved oxygen. Avoid acids, bases and direct sunlight.
Polymerization	: May occur
Incompatible Materials	: aluminum, carbon steel, iron, copper, brass and bronze.
Hazardous decomposition products	: Decomposition is very unlikely. Combustion may produce carbon monoxide, carbon dioxide, formaldehyde and / or oxides of nitrogen.

## XI. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE TO MATERIAL
Skin contact causes irritation, reddening and peeling, Eye contact may causes conjunctival irritation and corneal injury

Repeated skin contact, inhalation or ingestion results in polyneuropathy

LD 50 OF MATERIAL SPECIFY SPECIES & ROUTE 420mg/kg mice, oral	LD 50 OR MATERIAL 563 ± 20 mg/kg Rats oral
SENSITIZING CAPABILITY OF MATERIAL Not available	CARCINOGENICITY OF MATERIAL Possibly carcinogenic to human (JARC)
EXPOSURE LIMIT OF MATERIAL 0.3 mg/kg	IRRITANCY OF MATERIAL Irritant to skin and eyes

REPRODUCTIVE EFFECTS OF MATERIAL Reproductive toxicity is reported in animals
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Page no. : 4 of 3

## XII. ECOLOGICAL INFORMATION

No Aquatic LC 50, BOD, or COD data available  
OCTANOL/H2O PARTITION COEF : Not available.

## XIII. DISPOSAL CONSIDERATION

- Disposal Method : All local, state and federal regulation concerning health and pollution should be reviewed to determine approved disposal procedures.
- Do not discharge into waterways or sewer system.

## XIV. TRANSPORTATION INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
HAZARD CLASS	6.1
PACKING GROUP	III
UN NUMBER	2810
TRANSPORT LABEL REQUIRED	MISCELLANEOUS

### ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME : Contains acrylamide and formaldehyde

## XV. REGULATORY INFORMATION

This product contains one or more chemicals known to cause cancer.  
No additional information.

## XVI. OTHER INFORMATION

### NFPA HAZARD RATING ( National Fire Protection Association )

FIRE : Material that must be preheated before ignition can occur  
HEALTH : Material that, under emergency conditions, can cause temporary incapacitation or residual injury  
REACTIVITY : Materials that in themselves are normally stable, but that can become unstable at elevated temperature  
And pressures.

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