

## MATERIAL SAFETY DATA SHEET

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Version 1.3

## Section 1 - Product and Company Information

Product Name HYDROXYETHYL CELLULOSE  
Product Number 308633  
Brand ALDRICH

Company Sigma-Aldrich  
Street Address 3050 Spruce Street  
City, State, Zip, Country SAINT LOUIS MO 63103 US  
Technical Phone: 314 771 5765  
Emergency Phone: 414 273 3850 Ext. 5996  
Fax: 800 325 5052

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313 No
2-HYDROXYETHYL CELLULOSE	9004-62-0	No

Synonyms AW 15 (Polysaccharide) \* BL 15 \* Cellosize  
4400H16 \* Cellosize QP \* Cellosize QP3 \*  
Cellosize QP 1500 \* Cellosize QP 4400 \* Cellosize  
QP 30000 \* Cellosize UT 40 \* Cellosize WP \*  
Cellosize WP 300 \* Cellosize WP 4400 \* Cellosize  
WP 300H \* Cellosize WP 400H \* Cellosize WPO 9H17  
\* Cellulose hydroxyethylate \* Cellulose  
hydroxyethyl ether \* Fuji hec-BL 20 \* Glutofix  
600 \* HEC \* Hec-Al 5000 \* Hercules N 100 \* Hespan  
\* Hetastarch \* Hydroxyethyl cellulose \*  
2-Hydroxyethyl cellulose \* Hydroxyethyl cellulose  
ether \* 2-Hydroxyethyl cellulose ether \*  
Hydroxyethyl ether cellulose \* J 164 \* Natrosol \*  
Natrosol 250 \* Natrosol 250G \* Natrosol 250H \*  
Natrosol 300H \* Natrosol 250HHP \* Natrosol 250HHR  
\* Natrosol 250HR \* Natrosol 250H4R \* Natrosol  
250HX \* Natrosol 240JR \* Natrosol 150L \* Natrosol  
180L \* Natrosol 250L \* Natrosol LR \* Natrosol  
250M \* Natrosol 250MH \* OETs \* Tylose H 20 \*  
Tylose H 300 \* Tylose H series \* Tylose P \*  
Tylose PS-X \* Tylose P-X \* Tylose P-Z series \*  
Unicel QP 300 H \* Unicel QP 520

RTECS Number: FJ5958000

## Section 3 - Hazards Identification

## HMIS RATING

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

## NFPA RATING

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

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#### Section 4 - First Aid Measures

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##### ORAL EXPOSURE

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

##### INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

##### DERMAL EXPOSURE

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

##### EYE EXPOSURE

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.

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#### Section 5 - Fire Fighting Measures

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##### EXPLOSION DATA

Dust Potential: This material, like most materials in powder form, is capable of creating a dust explosion.

##### FLASH POINT

N/A

##### AUTOIGNITION TEMP

N/A

##### FLAMMABILITY

N/A

##### EXTINGUISHING MEDIA

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

##### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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#### Section 6 - Accidental Release Measures

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##### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

##### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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#### Section 7 - Handling and Storage

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##### HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin,



HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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Section 11 - Toxicological Information

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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.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Intravenous

Woman

5100 MG/KG

LDLO

Remarks: Brain and Coverings: Increased intracranial pressure.  
Behavioral: Somnolence (general depressed activity).  
Vascular: Change in plasma or blood volume.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Mouse

Dose: 500 MG/KG

Route of Application: Intraperitoneal

Exposure Time: (3-7D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

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Section 12 - Ecological Information

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No data available.

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Section 13 - Disposal Considerations

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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Section 14 - Transport Information

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DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

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UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

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Section 16 - Other Information

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DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.