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29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Trade name : Natrosol™ 250HX Hydroxyethylcellulose  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

### Relevant identified uses of the substance or mixture and uses advised against

<p><b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America (USA) 1-614-790-3333 (USA)</p> <p>EHSProductSafety@ashland.com</p>	<p><b>Emergency telephone</b> 1-800-ASHLAND (1-800-274-5263)</p> <p><b>Regulatory information</b> 1-614-790-3333 (customer service)</p> <p><b>Product Information</b> 1-614-790-3333 (USA)</p>
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Combustible Dust :

### GHS label elements

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.


### Other hazards

May form explosible dust-air mixture if dispersed.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : organic

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**Hazardous ingredients**  
 No hazardous ingredients

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#### SECTION 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
- In case of eye contact : Remove contact lenses.  
 Protect unharmed eye.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.
- Notes to physician : Treat symptomatically.

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#### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : No information available.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
 Carbon monoxide  
 Nitrogen oxides (NO<sub>x</sub>)  
 Oxides of phosphorus  
 Sodium oxides
- Specific extinguishing methods :
- Standard procedure for chemical fires.

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Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.


#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid dust formation.  
Avoid inhalation, ingestion and contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep container tightly closed in a dry and well-ventilated place.  
Store at room temperature in the original container.  
Keep in a dry, cool place.  
Keep away from direct sunlight.

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Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : Keep in a dry place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

**Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination.  
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

### Hand protection

Material : butyl-rubber  
 Break through time : 480 min  
 Glove thickness : > 0.5 mm

**Remarks** : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection** : Safety glasses

**Skin and body protection** : Work uniform or laboratory coat.

**Hygiene measures** : General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : granules, powder

**Physical state** : solid

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Color : off-white

Odor : odorless

Odor Threshold : Not applicable

pH : 6.0 - 8.5  
 Concentration: 2 %  
 (as aqueous solution)

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : not determined

Evaporation rate : Not applicable

Flammability (solid, gas) : Combustible Solids

Upper explosion limit : not determined

Lower explosion limit : Lower explosion limit  
 30 g/m<sup>3</sup>

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

Density : 1.38 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : soluble, Limited by viscosity

Solubility in other solvents : No data available

Partition coefficient: n-  
 octanol/water : not determined

Autoignition temperature : 460 °C

Thermal decomposition : No data available

Viscosity

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Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Oxidizing properties : Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Oxidizing agents

Hazardous decomposition products  
 Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)  
 Oxides of phosphorus  
 Sodium oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
 Eye contact  
 Skin contact  
 Ingestion

**Acute toxicity**

Not classified due to lack of data.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Skin sensitization: Not classified due to lack of data.

Respiratory sensitization: Not classified due to lack of data.

Germ cell mutagenicity



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Not classified due to lack of data.

**Carcinogenicity**

Not classified due to lack of data.

**Reproductive toxicity**

Not classified due to lack of data.

**STOT-single exposure**

Not classified due to lack of data.

**STOT-repeated exposure**

Not classified due to lack of data.

**Aspiration toxicity**

Not classified due to lack of data.

**Further information**

**Product:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Not classified based on available information.

Long-term (chronic) aquatic hazard : Not classified based on available information.

**Persistence and degradability**

**Product:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 25.2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available



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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**MX\_DG**

Not dangerous goods
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods
---------------------

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods
---------------------

**TDG\_INWT\_C**

Not dangerous goods
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**TDG\_RAIL\_C**

Not dangerous goods
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**TDG\_ROAD\_C**

Not dangerous goods
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**U.S. DOT - INLAND WATERWAYS**



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Not dangerous goods

**CFR\_RAIL\_C**

Not dangerous goods

**U.S. DOT - ROAD**

Not dangerous goods

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
DISODIUM PHOSPHATE	7558-79-4	5000	
ACETONE	67-64-1	5000	

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Combustible Dust

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.



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**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Pennsylvania Right To Know**

BIO POLYMER III

254504001-5906

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

Inorganic salts

Not Assigned

**New Jersey Right To Know**

BIO POLYMER III

254504001-5906

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

Inorganic salts

Not Assigned

Sodium dihydrogen phosphate

7558-80-7

DISODIUM PHOSPHATE

7558-79-4

**The ingredients of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory



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- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

**Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

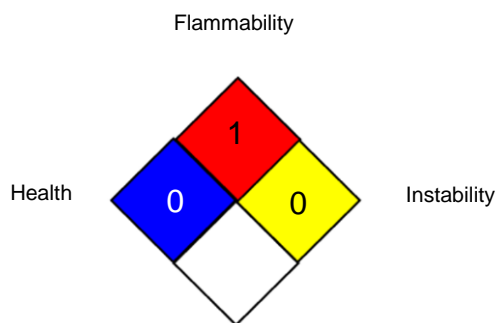
**Other regulations**

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	/	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>	
<b>PHYSICAL HAZARD</b>	<b>0</b>	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of H-Statements**

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**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Ashland. (<http://www.ashland.com>)

Sources of key data used to compile the Material Safety Data Sheet : Ashland internal data including own and sponsored test reports  
 European Union Law with content from the Official Journal of the European Union.  
 European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.  
 The German Water Hazard Classes.  
 ReachCentrum; a series of support services to help comply with REACH regulations.

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The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council. ESIS European Chemical Substances Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

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