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Safety Data Sheet
Hydroxyethylcellulose, HEC250HHBR

Section 1: Identification

Product identifier

Product Name	Hydroxyethylcellulose, Technical blend
Product Code	HEC250HHBR
Trade Name (by Ashland)	Natrosol 250 hhbr
Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Rheology modifier
Use Restrictions:	Not an ingredient for Foods and Pharmaceuticals
Detail of the supplier of the safety data sheet	
Manufacturer	Ashland
Supplier/ Distributor	Chemical Store Inc. 1059 Main Avenue, Clifton, NJ 07011 Tel: 1(973)405-6248 Website: ChemicalStore.com Email: info@ChemicaStore.com
Emergency Telephone Number	+1 (973) 420 – 4972 (United States)

Section 2: Hazards Identification

Classification of the substance or mixture

GHS label elements

Signal Word : Warning

Signal Word and Pictograms	 **WARNING**
Hazard statements	May form combustible dust concentrations in air

Other hazards

May form explosive dust-air mixture if dispersed.

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Section 3: Composition/ Information on

Substance / Mixture : Mixture

Chemical nature : organic

Hazardous ingredients

This product is considered hazardous according to the OSHA Hazard Communication Standard 29CFR1910.1200 due to flammable dust potential.

Inorganic salts		Comb Dust Eye Irritant. 2A; H319	>=5.00 - < 10.00
SORBITAN MONOSTEARATE 20EO POLYETHOXYLATE	9005-67-8	Not a hazardous substance or mixture.	>=1.00 - < 5.00
Silicon dioxide	112926-00-8	Comb Dust	>=1.00 - < 5.00

Actual concentration is withheld as a trade secret

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

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 (CO2) Carbon monoxide Nitrogen oxides (NOx) 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.
Materials to avoid	No materials to be especially mentioned
Further information on storage stability	Keep in a dry place

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Section 8: Exposure Control/ Personal Protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SORBITAN MONOSTEARATE 20EO POLYETHOXYLATE	9005-67-8	TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
SILICA COLLOIDAL	112926-00-8	TWA	6 mg/m3	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL

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.

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Section 9: Physical and Chemical Properties

Appearance	granules, powder
Physical state	solid
Color	off-white
Odor	Odorless
Odor Threshold	Not applicable
pH	6.0 - 8.5 Concentration: 1 % (as aqueous solution)
Melting point/freezing point	not determined
Boiling point/boiling range	not determined
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	not determined
Flammability (liquids)	not determined
Upper explosion limit	not determined
Lower explosion limit	Lower explosion limit 30 g/m3
Vapor pressure	Not applicable
Relative vapor density	Not applicable
Relative density	No data available
Density	1.38 g/cm3
Solubility in Water	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, dynamic	Not applicable
Viscosity, kinematic	Not applicable
Oxidizing properties	Not applicable
Molecular weight	No data available

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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 (CO2), Nitrogen oxides (NOx), 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

Components:

Silicon dioxide:

Acute oral toxicity	(Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 (Rat, female): > 5.01 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met.

Components:

Inorganic salts:
Result: No skin irritation

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SORBITAN MONOSTEARATE 20EO POLYETHOXYLATE:
Result: No skin irritation

Silicon dioxide:
Species: Rabbit
Method: OECD Test
Guideline 404 Result: No
skin irritation

Serious eye damage/eye irritation

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

Inorganic salts:
Result: Irritating to eyes.

SORBITAN MONOSTEARATE 20EO POLYETHOXYLATE:
Result: No eye irritation

Silicon dioxide:
Result: Slight, transient irritation

Respiratory or skin sensitization

Skin sensitization: Not classified due to lack of
data. Respiratory sensitization: Not classified
due to lack of data.

Components:
Silicon dioxide:
Test Type: Local lymph node assay
(LLNA) Species: Mouse
Assessment: Not a skin
sensitizer. Method: OECD
Test Guideline 429

Test Type: Maximization
Test Species: Guinea pig
Assessment: Not a skin
sensitizer. Method: OECD
Test Guideline 406

Germ cell mutagenicity
Not classified due to lack of data.

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Components:

Silicon dioxide**:**

Genotoxicity in vitro	Test Type: Chromosomal aberration Method: OECD Test Guideline 473 Result: negative
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	Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA s list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Sources for section 11: PubChem (NIH), ECHA (EU REACH dossiers), NIOSH Pocket Guide, EPA IRIS, OECD SIDS, ATSDR Toxicological Profiles

Section 12: Ecological Information

Ecotoxicity Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard	Not classified based on available information
Long-term (chronic) aquatic	Not classified based on available information

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hazard	

Persistence and degradability

Product:

Biodegradability	Result: Not readily biodegradable

Bio accumulative potential: No data available
Mobility in soil: No data available
Other adverse effects:
Product:

Additional ecological information	No data available
Inorganic salts: Results of PBT and vPvB assessment	Not persistent, bioaccumulative, and toxic (PBT).
Silicon dioxide: Results of PBT and vPvB assessment	Not persistent, bioaccumulative, and toxic (PBT).

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 Regulations

IATA-DGR: Not regulated as a dangerous good
IMDG-Code: Not regulated as a dangerous good
Transport in bulk according to IMO instruments: Not applicable for product as supplied.
National regulation:
49 CFR Road Not regulated as a dangerous good
Poison Inhalation Hazard : No
Special precautions for user
Remarks : Not classified as dangerous in the meaning of transport regulations.

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Section 15: Regulatory Information

SARA 311/312 Hazards : No SARA Hazards

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

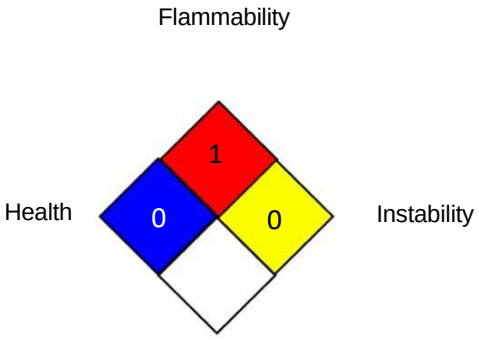
Massachusetts Right To Know: No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know: hydroxyethyl cellulose 9004-62-0
New Jersey Right To Know: hydroxyethyl cellulose 9004-62-0

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
The ingredients of this product are reported in the following inventories:
TSCA : All substances listed as active on the TSCA inventory
TSCA list
No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

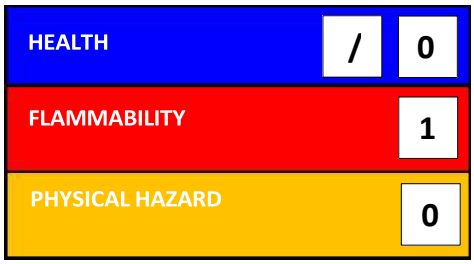
Section 16: Other Information

Further information

NFPA 704:



HMIS® IV:



Special hazard	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.

This sds contains some information from the original Ashland SDS. (http://www.ashland.com)

Revision date: 2026-01-21
Initial preparation date: 2026-01-21
SDS version: 1.0
Supersedes: [No previous version number]

Change History

Version	Date	Description of Change
[1.0]	[2026-01-21]	Initial SDS creation
[1.1]	[YYYY-MM-DD]	[e.g., Updated hazard classification / Added toxicology data / Editorial corrections]

Abbreviations and Acronyms

Term	Meaning
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute for Occupational Safety and Health
TWA	Time-Weighted Average
STEL	Short-Term Exposure Limit
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent and very Bioaccumulative

[Add additional abbreviations used in this SDS]

Key Literature and Data Sources

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This Safety Data Sheet was prepared using information from the following sources:

- [ECHA / REACH database]
- [NIOSH Pocket Guide]
- [PubChem / NIH]
- [OECD test data]
- [Supplier technical data sheets]
- [Scientific literature]

Hazard Classification Method

The classification of this substance was determined by:
☐ Experimental data
☐ Read-across
☐ Literature review
☐ GHS calculation method
☐ Supplier classification

[Describe method if required]

Disclaimer

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Prepared By

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