Ashland always solving	Page: 1
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_DE

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Natrosol™ 250HHR

Hydroxyethylcellulose

™ Trademark, Ashland or its subsidiaries, registered in

various countries

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

Recommended use : Rheology modifier

1.3 Details of the supplier of the safety data sheet Ashland P.O. Box 8619 NL3009 AP, Rotterdam	1.4 Emergency telephone number 00-800-274-5263-3/001-859-357-3564, or contact your local emergency telephone number at 112
Netherlands +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person	Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
EHSProductSafety@ashland.com	

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : Prevention:

Keep dust/air mixtures away from ignition sources.

**Ashland** always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : organic

Hydroxyethylcellulose

### **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Inorganic salts		Eye Irrit.2; H319	>= 5,00 - < 10,00

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Ashland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** : The most important known symptoms and effects are

described in the labelling (see Section 2.2) and/or Section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Organic dusts at sufficient concentration can form explosive

mixtures in air.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Nitrogen oxides (NOx) Oxides of phosphorus

Sodium oxides

### 5.3 Advice for firefighters

for firefighters

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

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Ashland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

Further information : Standard procedure for chemical fires.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

Avoid breathing dust.

Material can create slippery conditions.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.

Ensure all equipment is electrically grounded and bonded

before beginning transfer operations.

The material can accumulate static charge and can therefore

cause electrical ignition of flammable atmospheres. Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in

order to avoid any potential for dust explosion hazards.

**Ashland** always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

Advice on protection against

fire and explosion

: Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust

is formed.

Hygiene measures : Avoid breathing dust.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: No smoking.

Advice on common storage : No materials to be especially mentioned.

Storage class (TRGS 510) : 13, Non Combustible Solids

Other data : Keep in a dry place. No decomposition if stored and applied

as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

### **Engineering measures**

Provide appropriate exhaust ventilation at places where dust is formed.

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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

Eye protection : Safety glasses

Use eye protection according to EN 166.

Hand protection

Material : butyl-rubber

Ashland always solving ™	Page: 6
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

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.

The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard

EN 374 derived from it.

Skin and body protection : Wear as appropriate:

Safety shoes

Protective clothing complying with EN 13688. Safety shoes complying with EN ISO 20345.

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.

Respiratory protection complying with EN 136. Respiratory protection complying with EN 140. Respiratory protection complying with EN 14387.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance : granules, powder

Colour : off-white

Odour : odourless

Odour Threshold : Not applicable

pH : 6,5 - 8,5

Concentration: 1 % (as aqueous solution)

**Ashland** always solving	Page: 7
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

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

Burning number : 5 (26 °C)

Upper explosion limit / Upper

flammability limit

Upper explosion limit

not determined

Lower explosion limit / Lower :

flammability limit

Lower explosion limit

30 g/m3

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 1,38 g/cm3

Solubility(ies)

Water solubility : soluble, Limited by viscosity

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: not determined

Auto-ignition temperature : 460 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Oxidizing properties : Not applicable

Ashland always solving	Page: 8
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

### 9.2 Other information

Dust deflagration index (Kst) : < 200 m.b\_/s

Minimum ignition energy : > 10 mJ

Self-ignition : 120 °C

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

UV light.

Exposure to sunlight. Exposure to moisture

## 10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents strong bases

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: Carbon monoxide Carbon dioxide (CO2)

> Nitrogen oxides (NOx) Oxides of phosphorus

Sodium oxides

Ashland always solving	Page: 9
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Information on likely routes of : Inhalation exposure Skin contact

Eye contact Ingestion

#### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### **Components:**

Inorganic salts

Result: No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### **Product:**

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

#### **Components:**

Inorganic salts

Result: Irritating to eyes.

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

# Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

### **Product:**

No aspiration toxicity classification

**Ashland always solving	Page: 10
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose	Version: 1.10
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
419298	

### **Further information**

Product:

Remarks: No data available

# **SECTION 12: Ecological information**

# **12.1 Toxicity**

No data available

## 12.2 Persistence and degradability

**Product:** 

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 11 % Exposure time: 28 d

Method: OECD Test Guideline 301D

# 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

## 12.6 Other adverse effects

**Product:** 

Additional ecological

information

: No data available

Ashland always solving	Page: 11
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.

#### **SECTION 14: Transport information**

#### **SECTION 14: Transport information**

### 14.1 UN number

**ADN:** Not dangerous goods **ADR:** Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

#### 14.2 UN proper shipping name

**ADN:** Not dangerous goods **ADR:** Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

#### 14.3 Transport hazard class(es)

**ADN:** Not dangerous goods **ADR:** Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

### 14.4 Packing group

**ADN:** Not dangerous goods **ADR:** Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

Ashland always solving	Page: 12
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

#### 14.5 Environmental hazards

ADN: Not applicable ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable Hazard code(s): Not applicable Pollutant Category: Not applicable

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**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic

pollutants

: Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and : Not applicable

Ashland always solving	Page: 13
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

import of dangerous chemicals

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class

(Germany)

TA Luft List (Germany)

: WGK 1 slightly hazardous to water

: Total dust, Not applicable

: Inorganic substances in powdered form, Not applicable

: Inorganic substances in vapour or gaseous form, Not

applicable

: Organic Substances, Class 1 0,01 %

: Carcinogenic substances, Not applicable

: Mutagenic, Not applicable

: Toxic to reproduction, Not applicable

#### The components of this product are reported in the following inventories:

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

AICS On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

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

TCSI On the inventory, or in compliance with the inventory

TSCA On or in compliance with the active portion of the TSCA

**Ashland** always solving	Page: 14
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

#### inventory

#### **Inventories**

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

### 15.2 Chemical safety assessment

No data available

# **SECTION 16: Other information**

#### **Full text of H-Statements**

H319 : Causes serious eye irritation.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency: EC-Number - European Community number: ECx -Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

Ashland always solving	Page: 15
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 419298	Version: 1.10

NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance 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

#### **Further information**

Other information : This sds has been prepared by Ashland.

(http://www.ashland.com)

Sources of key data used to compile the 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.

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

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.

**Ashland** always solving	Page: 16
SAFETY DATA SHEET	Revision Date: 03.11.2020
	Print Date: 12.07.2022
	SDS Number: R0702818
Natrosol™ 250HHR Hydroxyethylcellulose	Version: 1.10
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
419298	

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