



SAFETY DATA SHEET

NATROSOL 250 HHR

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Natrosol 250 HHR
INCI Name: Cellulose, 2-hydroxyethyl ether
CAS: 9004-62-0

Company: Chemistry Connection
253 Sturgis Road
Conway, AR 72034
(501) 470-9689
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Emergency Contact: 888-583-7738

2. HAZARD IDENTIFICATION

GHS Classification
Combustible Dust

GHS Label element

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

Other hazards
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical Nature : Organic

Hazardous components

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

4. 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 to be cleaned by washing with soap and water.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : no symptoms known or expected.

Notes to physician : No hazards which require special first aid measures.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam

Specific hazards during : Organic dusts as 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 and carbon monoxide
Nitrogen oxides (NO_x)

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures : 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.

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

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

Other information : Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

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.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Conditions for safe storage : No smoking.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

Respiratory protection: : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Avoid breathing dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granules, powder
Physical state	Solid
Colour	Off-white
Odour	Odourless
Odour threshold	No data available
pH	6.0 – 8.5, 2 %(as aqueous solution)
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	No data available
Density	1.38 g/cm ³
Solubility(ies) Water solubility	Soluble, Limited by viscosity
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	460°C
Thermal decomposition	No data available
Viscosity Viscosity, dynamic	No data available

Viscosity kinematic	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Dust may form explosive mixture in air.
- Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
 UV light.
 Exposure to sunlight.
- Incompatible materials : Acids
 Bases
 Oxidizing agents
- Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

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.

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.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: 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

STOT – repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: Not data available

Carcinogenicity:

IARC Not component 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 identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability**Product:**

Biodegradability : Remarks: Slowly biodegradable.

Not data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological : No data available information

13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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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Mexican Regulation for the Land Transport of Hazardous Materials and Wastes

Not dangerous goods.

International Air Transport Association – Passenger

Not dangerous goods.

International Air Transport Association – Cargo

Not dangerous goods

International Maritime Dangerous Goods

Not dangerous goods

Transport Canada – Inland Waterways

Not dangerous goods

Transport Canada – Rail

Not dangerous goods

Transport Canada – Road

Not dangerous goods

U.S. DOT – Inland Waterways

Not dangerous goods

U.S. DOT – Rail

Not dangerous goods

U.S. DOT – Road

Not dangerous goods

***ORM = ORM-D, CBL = Combustible Liquid**

Marine pollutant No

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.

15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard

US Statement Regulations

Pennsylvania Right To Know

CELLULOSE	254504001-5906	90.00 – 100.00
The identity of one or more component(s) is being withheld under business confidentiality.		

Inorganic Salts	Not Assigned	5.0 – 10.00 %
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New Jersey Right To Know

CELLULOSE	254504001-5906	90.00 – 100.00
The identity of one or more component(s) is being withheld under business confidentiality.		

Inorganic Salts	Not Assigned	5.00 – 10.00 %
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California Prop 65 : The product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA : On TSCA Inventory

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

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

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

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

KECL : 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

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

16. OTHER INFORMATION

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