

HYDROXY ETHYL CELULOSE

SANS 10234:2008 and SANS 11014:2010

Date of issue:01/07/2021

Version:1.0

Rev date: 03.03.2023

Section 1. Identification

1.1. Product Identifier

Product Name Hydroxy Ethyl Cellulose

Synonyms HEC

CAS No. 9004-62-0

EC No.

Molecular Formula

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

Please consult manufacture

1.3. Supplier's details

Company Address : Rolfes Chemicals Pty Ltd
 : Cnr Brammer and Strachan Street
 : Germiston
 : South Africa

Telephone

Email : 011 873 0157

: info@rolfesza.com

Emergency telephone number : +27 (0)861 114 753

Section 2. Hazards identification

Classification of the substance or mixture

Flammable Liquids Category 1

Acute Toxicity – Oral Category 1

Label elements

Pictogram N/A

Signal Word >	Warning
Hazard Statements	
H302	Harmful if swallowed
H311	Harmful in contact with skin
H314	My cause eye irritation
H318	Causes serious eye damage
H331	Harmful if inhaled

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Section 3 Composition/Information on Ingredients		
Component Number:	CAS No.	Concentration (weight percent, %)
Hydroxyethyl	9004-62-0	90%-100%
Water	7732-18-5	0-5%
Sodium chloride	7647-14-5	0-5%

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	If victim is conscious and alert, give 2-4 cupful's of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following
1 repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5. Fire-fighting measures

> Extinguishing Media

Suitable Extinguishing Media

Dry chemical, carbon dioxide or Water and foam-fog

Unsuitable

N/A

Extinguishing Media

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> Specific Hazards Arising from the Substance or Mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

Advice for Firefighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6. Accidental release measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container.

Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7. Handling and storage**Precautions for Handling**

1. Removal of mobile products need to wear protective gloves when products for the brittle material, handled with care when handling.
2. Apply good manufacturing practice & industrial hygiene practices.
3. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
4. Wear protective goggles and gloves when handling material.
5. Clean cloths, must be worn.
6. Observe all warnings and precautions listed for the product.

> Precautions for Storage

1. Store in a cool and dry area away from heat sources and protected from light.
2. store in relatively stable area, to avoid collision occurred on a hard object.
3. avoid dust formation and control ignition sources.
4. Keep air contact to a minimum.

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Section 8. Exposure controls/personal protection**Components with workplace control parameters**

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses.Lab coat.Dust respirator.Be sure to use an approved/certified respirator or equivalent.Gloves.

Personal Protection in Case of a Large Spill:Splash goggles.Full suit.Dust respirator.Boots.Gloves.A self contained breathing apparatus should be used to avoid inhalation of the product.Suggested protective clothing might not be sufficient,consult a specialist before handling this product.

Exposure Limits:Not available.

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Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Form:	Powder
Color:	White
Odor:	Odorless Change in condition
Melting point/Melting range:	Not available.
Boiling point/Boiling range:	Not available.
Flash point:	Not applicable.
Danger of explosion:	Product does not present an explosion hazard.
Density:	0.38g/l
Vapor density :	Not available.
Evaporation rate:	Not available.
Solubility in/Miscibility with water:	Soluble
PH-Value:	4.0-8.0

Section 10. Stability and reactivity

Chemical stability	Stable under normal temperatures and pressures.
Solubility	Can be dispersed in cold water, forming a transparent viscous milky white colloidal solution. In soluble in ethanol.
Materials to avoid	oxidizing agents.
Hazardous decomposition products	Not available.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Routes of entry: Inhalation.Ingestion.

Toxicity to Animals LD50:Not available.

LC50:Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:Slightly hazardous in case of skin contact(irritant),of inhalation.

Special Remarks on Toxicity to Animals:Not available.

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Special Remarks on other Toxic Effects on Humans Acute Potential Health Effects Skin: May cause skin irritation.
Eyes:May cause eye irritation.
Inhalation:May cause respiratory tract irritation.
Ingestion: Expected to be a low hazard.

Section 12. Ecological information**Ecotoxicity:** Not available.**BOD5 and COD:** Not available.**Products of Bio-degradation:** Possibly hazardous short term degradation product are not likely.However,long term degradation products may arise.**Special Remarks on the Products of Bio-degradation:** Not available.**Section 13: Disposal considerations****Waste Disposal Methods:** Disposal must be done as territory and/or local government regulation.Waste management information will help to receive the best results.**Disposal of packaging:** Disposal of according to local regulation.Avoid disposing into drainage systems and into the environment.**Section 14. Transport information****DG Pictogram**

N/A

DOT Classification: Not a DOT controlled material(United States).**Identification:** Not Available.**Special Provisions for Transport:**Not available.**TDG Classification:** Not controlled under TDG(Canada).**ADR/RID Classification:**Not controlled under ADR(Europe).**IMO/IMDG Classification:**Not controlled under IMDG.**ICAO/IATA Classification:**Not controlled under IATA.**Section 15: Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture****TSCA:**Not listed on the TSCA inventory.It is for research and development use only. **Health & Safety Reporting List:**None of the chemical are on the Health & Safety Reporting List.



Safety Data Sheet

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CERCLA Hazardous Substances and corresponding RQs:None of the chemicals in this material have an RQ.

Chemical Test Rules:None of the chemicals in this product are under a Chemical Test Rules.

TSCA Significant New Use rule:None of the chemicals in this material have a SNUR under TSCA.

SARA Section 302 Extremely Hazardous Substances:None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

OSHA:None of the chemicals in this product are considered highly hazardous by OSHA.

California Prop 65 California No Significant Risk Level:None of the chemicals in this product are listed.

REACH Regulation List of Substances of very high concern(SVHC):None of the ingredient is listed.

Chemical safety assessment:A Chemical Safety Assessment has not been carried out.

Section 16. Other information

Full text of H-Statements

Supplier Declaration: Exclusion of Liability

Notice to reader:

All reasonable efforts were exercised to compile this SDS in accordance with available information. The SDS provides information regarding the health, safety, and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Rolfes Chemicals cannot anticipate or control all conditions under which the product may be handled, used, and received in the workplace, it remains the obligation of each user, receiver, or handler to, prior to usage, review this SDS in the context within which the product will be received, handled, or used in the workplace. The user, handler, or receiver must ensure that the necessary mitigating measures are in place regarding health and safety. This does not substitute the need or requirement for any relevant risk assessment to be conducted. It further remains the responsibility of the receiver, handler, or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product. Although all reasonable efforts were exercised in the compilation of this SDS, Rolfes Chemicals does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold, and risk passes in accordance with the specific terms and conditions of sale.