

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 1 of 8

1. Identification**Product identifier**

Second-cut cotton linters

Substance name: Second-cut cotton linters (cellulose)
CAS No: 9004-34-6

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

test dust

Details of the supplier of the safety data sheet

Company name: Powder Technology Inc.
Street: 1300 Grey Fox Road
Place: USA-55112 Arden Hills, MN
Telephone: +1 952 894 -8737
e-mail: sales@powdertechologyinc.com
Internet: http://www.powdertechologyinc.com

Emergency phone number: +1 952 894 -8737**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Combustible Dust: Comb. Dust

Label elements**29 CFR Part 1910.1200**

Signal word: Warning

Special labelling of certain mixtures

May form combustible dust concentrations in air.

Hazards not otherwise classified

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

3. Composition/information on ingredients**Substances****Chemical characterization**

Second-cut cotton linters (cellulose)

Hazardous components

CAS No	Components	Quantity
9004-34-6	Second-cut cotton linters (cellulose)	100 %

4. First-aid measures**Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration. If experiencing respiratory symptoms: Call a doctor.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 2 of 8

After contact with skin

Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

Combustible. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

In case of fire: Gases/vapours, toxic.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Additional information

Knock down dust with water spray jet. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition - No smoking. Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety.

Environmental precautions

Avoid release to the environment. Clean contaminated articles and floor according to the environmental legislation.

Methods and material for containment and cleaning up

Take up mechanically. Take up dust-free and set down dust-free. Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 3 of 8

Advice on safe handling

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety.

Advice on protection against fire and explosion

Avoid dust formation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Do not store together with: Fluorine.

Further information on storage conditions

Keep away from heat.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
9004-34-6	Cellulose (total)	-	10		TWA (8 h)	REL
9004-34-6	Cellulose Respirable fraction	-	5		TWA (8 h)	PEL
9004-34-6	Cellulose Total dust	-	15		TWA (8 h)	PEL
9004-34-6	Cellulose		10		TWA (8 h)	ACGIH-2019

Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

Do not breathe dust. Avoid dust formation. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

Eye/face protection

Wear eye protection/face protection.
Suitable eye protection: Dust protection goggles.

Hand protection

Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:
Generation/formation of dust.

Environmental exposure controls

Avoid release to the environment.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 4 of 8

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	solid	
Color:	light brown	
Odor:	odourless	
pH-Value:		not determined

Changes in the physical state

Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable
Sustaining combustion:	Sustaining combustion

Flammability

Solid:	not determined
Gas:	not applicable

Explosive properties

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Solid:	407 °C
Gas:	not applicable

Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

Vapor pressure:	not determined
Density:	1,5 g/cm ³
Water solubility:	Immiscible

Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not applicable
Viscosity / kinematic:	not applicable
Vapor density:	not determined
Evaporation rate:	not determined

Other information

Solid content:	100,00 %
Odour threshold:	not applicable

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 5 of 8

Stability: Stable

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: May occur

Exothermic reaction with: Fluorine Danger of dust explosion. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Conditions to avoid

Heat

Incompatible materials

Fluorine

Hazardous decomposition products

In case of fire: Gases/vapours, toxic.

11. Toxicological information

Information on toxicological effects

Route(s) of Entry

Inhalation, oral, dermal, Eye contact.

Acute toxicity

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
9004-34-6	Second-cut cotton linters (cellulose)				
	oral	LD50 >5000 mg/kg		GESTIS	
	dermal	LD50 >2000 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) aerosol	LC50 >5,8 mg/l		GESTIS	

Irritation and corrosivity

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

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

Aspiration hazard

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

Practical experience

Other observations

Chronic inhalation of cotton dust can cause byssinosis.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 6 of 8

12. Ecological information**Ecotoxicity**

The product is not: Ecotoxic.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

14. Transport information**US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**UN number:**

No dangerous good in sense of this transport regulation.

UN proper shipping name:

No dangerous good in sense of this transport regulation.

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)**UN number:**

No dangerous good in sense of this transport regulation.

UN proper shipping name:

No dangerous good in sense of this transport regulation.

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No information available.

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

not applicable

15. Regulatory information**U.S. Regulations****National Inventory TSCA**

CAS No. 9004-34-6: Yes.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 7 of 8

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 1
 Flammability: 1
 Physical Hazard: 0

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0
 Unique Hazard:

Revision date: 06.04.2020

Revision No: 1,00



Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IARC: International Agency for Research on Cancer
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service
 NFPA: National Fire Protection Association
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: permissible exposure limit
 REL: recommended exposure limit
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short-term exposure limit
 TSCA: Toxic Substances Control Act
 TWA: time-weighted average
 TI: Technical Instructions
 DGR: Dangerous Goods Regulations
 UN: United Nations
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds



Safety Data Sheet

according to 29 CFR 1910.1200(g)

Second-cut cotton linters

Revision date: 06.04.2020

Page 8 of 8

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.