



SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 758) as amended - SDSGHS_GB

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

1.1 Product identifier

Trade name : Aqualon™ EC-N100 PHARM
™ Trademark, Ashland or its subsidiaries, registered in various countries

Substance name ETHYLCELLULOSE

Substance No.
EC-No. 618-384-9

CAS-No. 9004-57-3

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

Recommended use : Rheology modifier
in Pharmaceutical products

1.3 Details of the supplier of the safety data sheet

Ashland Specialties UK Ltd
Vale Industrial Estate, Stourport Road,
Kidderminster
Worcestershire DY11 7QU
01562 821300
United Kingdom
001-614-790-3333 (customer service USA)

Company:

ISP Microcaps (UK) Ltd
8 – 9 Stepnell Reach, 541 Blandford Rd
Poole, Dorset, BH16 5BW, England
01202 627352

Techwax Ltd
4B Whinbank Park, Whinbank Road
Newton Aycliffe Industrial Park, Newton Aycliffe
Co Durham, DL5 6AY, United Kingdom
01325 303084

1.4 Emergency telephone

1-800-ASHLAND (1-800-274-5263), or contact
your local emergency telephone number at 111 -
ENG, SCO, CYM.

Regulatory information

1-614-790-3333 (customer service)

Product Information

001-614-790-3333 (customer service USA)



SAFETY DATA SHEET	Revision Date: 24.11.2022
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EHSProductSafety@ashland.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

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.
May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : ETHYLCELLULOSE

CAS-No. : 9004-57-3

Chemical nature : organic

SAFETY DATA SHEET

Revision Date: 24.11.2022

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SDS Number: R0702879

Version: 2.5

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415088

Components

No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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



SAFETY DATA SHEET	Revision Date: 24.11.2022
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	SDS Number: R0702879
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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : No information available.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.



SAFETY DATA SHEET	Revision Date: 24.11.2022
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Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

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

Further information on storage stability : 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 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/face protection : Safety glasses

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.



SAFETY DATA SHEET	Revision Date: 24.11.2022
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Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Work uniform or laboratory coat.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : granules, powder

Color : off-white

Odor : odorless

Odor Threshold : Not applicable

pH : Not applicable

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

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : Lower explosion limit
20 g/m³

SAFETY DATA SHEET

Revision Date: 24.11.2022

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Vapor pressure : Not applicable
 Relative vapor density : Not applicable
 Relative density : No data available
 Density : not determined
 Bulk density : 380 kg/m³
 Solubility(ies)
 Water solubility : negligible
 Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : not determined
 Autoignition temperature : 380 °C
 Decomposition temperature : No data available
 Viscosity
 Viscosity, dynamic : Not applicable
 Viscosity, kinematic : Not applicable
 Oxidizing properties : Not applicable

9.2 Other information

Flammability (liquids) : not determined
 Molecular weight : No data available
 Self-ignition : 130 °C

SECTION 10: Stability and reactivity
10.1 Reactivity

No dangerous reaction known under conditions of normal use.



SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Strong bases
Oxidizing agents
Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Eye contact
Skin 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.



SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

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 information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability


No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

	Page: 10
SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

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:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

ADR: Not dangerous goods

ADN: Not dangerous goods

SAFETY DATA SHEET

Revision Date: 24.11.2022

Print Date: 06.12.2023

SDS Number: R0702879

Version: 2.5

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14.2 UN proper shipping name
RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

ADR: Not dangerous goods

ADN: Not dangerous goods

14.3 Transport hazard class(es)
RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

ADR: Not dangerous goods

ADN: Not dangerous goods

14.4 Packing group
RID: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

ADR: Not dangerous goods

ADN: Not dangerous goods

14.5 Environmental hazards
RID: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

ADR: Not applicable

ADN: 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

	Page: 12
SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
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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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

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

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

TSCA : All substances listed as active on the TSCA inventory

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

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

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

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



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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


15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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; 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

	Page: 14
SAFETY DATA SHEET	Revision Date: 24.11.2022
	Print Date: 06.12.2023
	SDS Number: R0702879
Aqualon™ EC-N100 PHARM Ethylcellulose, ™ Trademark, Ashland or its subsidiaries, registered in various countries 415088	Version: 2.5

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 Material 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.

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