<b>ASHLAND</b>	Page: 1
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

29 CFR 1910.1200 (OSHA HazCom 2012)

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Trade name : Aqualon™ EC-N50 FG

Ethylcellulose

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Substance name : ETHYLCELLULOSE

Substance No.

## Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	
·	

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Combustible Dust :

**GHS Label element** 

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

Other hazards
None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

Chemical nature : organic

<b>ASHLAND</b>	Page: 2
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

## **Hazardous components**

No hazardous ingredients

#### **SECTION 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 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.

# **SECTION 5. FIREFIGHTING MEASURES**

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

circumstances and the surrounding environment.

Water spray Foam

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 and carbon monoxide

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

<b>ASHLAND</b>	Page: 3
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

for firefighters

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

#### **SECTION 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.

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

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.

#### **SECTION 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.

<b>ASHLAND</b>	Page: 4
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

#### SECTION 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.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : granules, powder

Physical state : solid

Colour : off-white

Odour : odourless

Odour Threshold : No data available

pH : No data available

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

<b>ASHLAND</b>	Page: 5
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

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 : No data available

Bulk density : 380 kg/m3

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : 380 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

# **SECTION 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

<b>ASHLAND</b>	Page: 6
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

oxidizers

Hazardous decomposition

products No hazardous decomposition products are known.

## **SECTION 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 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.

#### **Further information**

## **Product:**

Remarks: No data available

# Carcinogenicity:

IARC No 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.

<b>ASHLAND</b>	Page: 7
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

**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.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Additional ecological

information

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

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

federal regulations.

Contaminated packaging : Empty remaining contents.

#### **SECTION 14. TRANSPORT INFORMATION**

## International transport regulations

#### REGULATION

REGULATION					
ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

#### U.S. DOT - ROAD

	0.0. 20.	NO 1D
		Not dangerous goods
ſ		

# CFR\_RAIL\_C

Not dangerous goods

<b>ASHLAND</b>	Page: 8
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

U.S. DOT - INLAND WATE		
Not dang	gerous goods	
TDG_ROAD_C		
Not dang	gerous goods	
TDG_RAIL_C		
	gerous goods	
TDG_INWT_C		
Not dang	gerous goods	
INTERNATIONAL MARITIN	IE DANGERO	OUS GOODS
Not dang	gerous goods	
INTERNATIONAL AIR TRA	NSPORT AS	SOCIATION - CARGO
Not dang	gerous goods	
INTERNATIONAL AIR TRA	NSPORT AS	SOCIATION - PASSENGER
Not dang	gerous goods	
MX_DG		
Not dang	gerous goods	
*ORM = ORM-D, CBL = CO	MBUSTIBLE	LIQUID
Marina pollutant	<del></del>	200
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.

# **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazards : Fire Hazard

<b>ASHLAND</b>	Page: 9
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

SARA 313 Component(s)SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

ETHYLCELLULOSE 9004-57-3 90.00 -

100.00 %

**New Jersey Right To Know** 

ETHYLCELLULOSE 9004-57-3 90.00 -

100.00 %

California Prop 65 This 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**

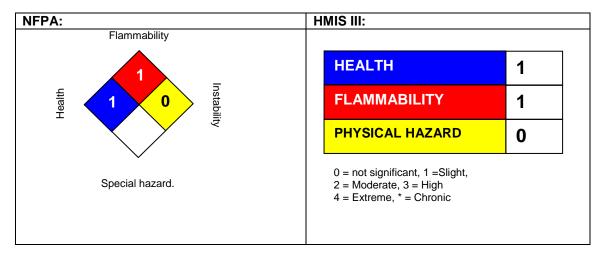
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

<b>ASHLAND</b>	Page: 10
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

Revision Date: 05/21/2015



#### Full text of H-Statements referred to under sections 2 and 3.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

ASHLAND.	Page: 11
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 10/31/2016
	SDS Number: R0702878
Aqualon™ EC-N50 FG Ethylcellulose  ™ Trademark, Ashland or its subsidiaries, registered in various countries 813550	Version: 1.0

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population. ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

**DOT**: Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health OSHA : Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System