P Ashland always solving	F	Page: 1
SAFETY DATA SHEET	Revision Date: 02/2	4/2018
	Print Date: 7/1	9/2018
	SDS Number: R07	703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version	on: 1.5

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : N-Hance™ BF17

Cationic Guar Derivatives

™ Trademark, Ashland or its subsidiaries, registered in

various countries

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

Recommended use : Personal care

Details of the supplier of the safety data sheet
Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America (USA)
+1-614-790-3333

Emergency telephone number
1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number
1-800-325-3751

Product Information
+1-614-790-3333

SECTION 2. HAZARDS IDENTIFICATION

EHSProductSafety@ashland.com

GHS Classification

Combustible Dust :

Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal Word : Warning

PAshland always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

Hazard Statements : May form combustible dust concentrations in air.

Causes serious eye irritation.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Keep dust/air mixtures away from ignition sources.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : organic

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
CATIONIC GUAR GUM,	65497-29-2	Comb Dust	89.004
MODIFIED		Eye Irrit. 2A; H319	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

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.

PAshland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

In case of eye contact : Immediately flush eye(s) with plenty of water.

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

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways) Causes serious eye irritation.

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

Unsuitable extinguishing

media

: High volume water jet

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

Hydrocarbons hydrogen chloride Sodium oxides

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

PAshland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

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.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up : 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

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".

Avoid dust formation.

Do not breathe vapours/dust.

Do not smoke.

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.

Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

PAshland always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

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.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
CATIONIC GUAR GUM,	65497-29-2
MODIFIED	

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.

Provide appropriate exhaust ventilation at places where dust

is formed.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear resistant gloves (consult your safety equipment

supplier).

Wear as appropriate:

Safety shoes

Dust impervious protective suit

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid breathing dust.

Wash hands before breaks and at the end of workday.

When using do not eat or drink.

PAshland always solving	Page: 6
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules, powder

Physical state : solid

Colour : off-white

Odour : slight, mild

Odour Threshold : No data available

pH : 3.5 - 6.5

Concentration: 1 % (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 : 0.6 g/cm3

Bulk density : 500 - 1,000 kg/m3

Solubility(ies)

Water solubility : soluble, Limited by viscosity

Solubility in other solvents : No data available

PAshland always solving	Page: 7
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

Partition coefficient: n-

octanol/water

: No data available

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.

excessive heat UV light.

Exposure to sunlight.

Incompatible materials : Acids

Oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons hydrogen chloride Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact Eye Contact

Ashland always solving □	Page: 8
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance™ BF17 Cationic Guar Derivatives ™ Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

Ingestion

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

CATIONIC GUAR GUM, MODIFIED:

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Product dust may be irritating to eyes, skin and respiratory system., Causes serious eye irritation.

Components:

CATIONIC GUAR GUM, MODIFIED:

Result: Irritating to eyes.

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.

**Ashland always solving	Page: 9
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance™ BF17 Cationic Guar Derivatives	Version: 1.5
[™] Trademark, Ashland or its subsidiaries, registered in various countries	
413405	

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:

CATIONIC GUAR GUM, MODIFIED:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 54 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : NOEC (Blue-green algae (Anabaena flos-aquae)): > 100 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

Method: OECD Test Guideline 201

GLP: yes

Persistence and degradability

Product:

Biodegradability : Remarks: Inherently biodegradable.

Components:

CATIONIC GUAR GUM, MODIFIED:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 28 d

Method: OECD Test Guideline 301D

P Ashland always solving	Page: 10
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

No data available

Bioaccumulative potential

Components:

No data available

Mobility in soil

Components:
No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

federal regulations.

The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

SAFETY DATA SHEET SAFETY DATA SHEET Revision Date: 02/24/2018 Print Date: 7/19/2018 N-Hance™ BF17 Cationic Guar Derivatives Trademark, Ashland or its subsidiaries, registered in various countries 4/13/405 U.S. DOT - ROAD Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_ROAD_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods		Page: 11	
Print Date: 7/19/2018 N-Hance™ BF17 Cationic Guar Derivatives ™ Trademark, Ashland or its subsidiaries, registered in various countries 413405 U.S. DOT - ROAD Not dangerous goods CFR RAIL C Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_RAIL_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods Not dangerous goods	Ashland [™] always solving		
Print Date: 7/19/2018 N-Hance™ BF17 Cationic Guar Derivatives ™ Trademark, Ashland or its subsidiaries, registered in various countries 413405 U.S. DOT - ROAD Not dangerous goods CFR RAIL C Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_RAIL_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods Not dangerous goods			
N-Hance™ BF17 Cationic Guar Derivatives ™ Trademark, Ashland or its subsidiaries, registered in various countries 413405 U.S. DOT - ROAD Not dangerous goods CFR_RAIL_C Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods MX_DG Not dangerous goods	SAFETY DATA SHEET		
N-Hance™ BF17 Cationic Guar Derivatives ™ Trademark, Ashland or its subsidiaries, registered in various countries 413405 U.S. DOT - ROAD Not dangerous goods CFR_RAIL_C Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_RAIL_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods	™ Trademark, Ashland or its subsidiaries, registered in various countries	Version: 1.5	
Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods			
Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods			
U.S. DOT - INLAND WATERWAYS Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods			
Not dangerous goods TDG_ROAD_C Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods	Not dangerous goods		
Not dangerous goods TDG_RAIL_C Not dangerous goods TDG_INWT_C Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods	TDO DAIL O		
INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods	Not dangerous goods		
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO Not dangerous goods INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods	INTERNATIONAL MARITIME DANGEROUS GOODS		
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER Not dangerous goods MX_DG Not dangerous goods			
MX_DG Not dangerous goods Not dangerous goods		CARGO	
MX_DG Not dangerous goods Not dangerous goods	INTERNATIONAL AIR TRANSPORT ASSOCIATION -	PASSENGER	
Not dangerous goods		TAGCETOEN	
Not dangerous goods			
	. 10t dangerode goods		
*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID	*ODM - ODM D CDI - COMPUSTIBLE LIQUID		

no

Marine pollutant

PAshland always solving Solving	Page: 12
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

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

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ. **SARA 304 Extremely Hazardous Substances Reportable Quantity**This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Combustible Dust

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

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.

US State Regulations

Pennsylvania Right To Know

CATIONIC GUAR GUM, MODIFIED 65497-29-2

WATER 7732-18-5

New Jersey Right To Know

CATIONIC GUAR GUM, MODIFIED 65497-29-2

WATER 7732-18-5

SODIUM CHLORIDE 7647-14-5

SODIUM CITRATE 68-04-2

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:

DSL : This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.

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

P Ashland always solving	Page: 13
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

ENCS : Personal care

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

TSCA : On TSCA Inventory

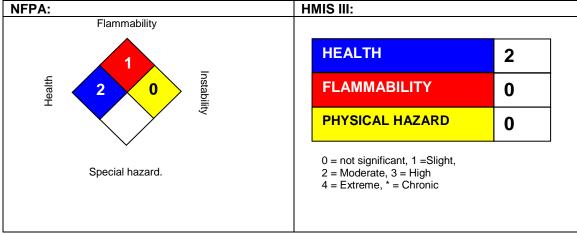
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 02/24/2018



NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements

H319 Causes serious eye irritation.

PAshland always solving Solving	Page: 14
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

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).

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

P Ashland always solving	Page: 15
SAFETY DATA SHEET	Revision Date: 02/24/2018
	Print Date: 7/19/2018
	SDS Number: R0703056
N-Hance [™] BF17 Cationic Guar Derivatives [™] Trademark, Ashland or its subsidiaries, registered in various countries 413405	Version: 1.5

Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative