Section 1: General Form*:*
Instructions for Section 1: see page 2
Please provide:

This questionnaire is intended to help in the technical approval and qualification of potential suppliers.
As such, the prompt and accurate completion of all sections will facilitate this process and the data on the form is treated as critical base data for safety and regulatory work.
All information will be treated as confidential.
If the information being requested is either unavailable or not applicable, please indicate and explain**.**

A. Material /Supplier Identification:

Trade Name/Product #: **N-Hance™ 4572 cationic guar**
Harmonized Tariff Code:

Color Index Number (if applicable): NA

Manufacturer Name (if different from Supplier): Refer to CoA

Supplier Name:Ashland

Contact Name: Global Regulatory Customer Request Team **Title: Analyst**

E-mail Address: globalregulatorycustomerrequest@ashland.com

Phone: NA **FAX: NA**

Manufacturer's Plant Address
(Address where material is manufactured)**: Refer to CoA** **Country of Origin: Refer to CoA**

B. Required Supporting Documentation:

- ☐ **Material Safety Data Sheet**
- ☐ **SDS**
- ☐ **Microbiological Specification**
- ☐ **Specification Sheet**
- ☐ **Certificate of Analysis (COA)**
- ☐ **GMP Certificate**
- ☐ **BSE Certificate**

C. Applicable Sections: **Please note if any data is restricted under confidentiality agreement (Mandatory in red).**

General Form	☐	**Restricted Data**	☐
Regulatory Status	☐	**Restricted Data**	☐
Physical Chemical Properties	☐	**Restricted Data**	☐
Safety	☐	**Restricted Data**	☐
Environmental Impact	☐	**Restricted Data**	☐
Plant Derived Material	☐	**Restricted Data**	☐
TSE Certification	☐	**Restricted Data**	☐

Environmental Impact statement (if available) with this completed questionnaire.

Section 1: General Form

D. Composition & Material Identification:

Total target contents of the components should sum up to 100%. List all intentionally-added constituents in this table. Please be noted the data here is critical base data for safety and regulatory work.

*** Definition of Function:**

Key Ingredients - defined as chemicals intended to function in finished products.

Carryover Ingredients – defined as chemicals intentionally added to material to maintain its quality or stability, such as preservative, anti-oxidant, UV filter, that does not function in finished product formula.

#	Constituent name (Approved INCI name)	CAS#	EINECS# / ELINCS#	Min (W %)	Target (W %)	Max (W %)	Constituent Function	Feedstock Origin
1	Guar hydroxypropyltrimonium chloride	65497-29-2	Exempt		~66%		Key Ingredient	Plant
2	Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer	75150-29-7	Exempt		~30%		Key Ingredient	Synthetic
3	Aqua	7732-18-5	231-791-2		3-5%		Solvent	Mineral
4	Sodium hydroxide	1310-73-2	215-185-5		< 0.2%		Additive-Other	Synthetic
5							Select	Select
6							Select	Select
7							Select	Select
8							Select	Select
9							Select	Select
10							Select	Select

General Comments:
If you selected the Feedstock Origin “Bovine” or "Animal-other", please attach TSE certification.
If you select the Feedstock Origin "Other", please explain:
Is the material a polymer according to the definition (Cefic) Select
Please note if the material is a polymer a detailed impurity profile should be provided in following table G.

E. Certifications:

Kosher Certification	☐ Yes ☒ No	Halal Certification	☐ Yes ☒ No
Is the material Food Grade?	☐ Yes ☒ No	GRAS (Generally Recognized as Safe)?	☐ Yes ☐ No
USP?	☐ Yes ☒ No	EU Pharmacopeia?	☐ Yes ☒ No

Other? (Please describe and/or attach)

LOI Declaration:
Do you certify that all the lots you supply will comply with all the answers until further notice from you? ☒ Yes ☐ No
Comments/Notes:

Section 1: General Form

F. Global Inventory Status: In the table below, please describe the inventory status of each constituent. Please add in the Inventory Number or choose the Inventory Status in each field below:

#	Constituent name (Approved INCI name)	US TSCA	Canada Inventory	Australia AICS	China IECSC	Japan ENCS	Japan JCIA	Korea ECL	Philippines PICCS
1	Guar hydroxypropyltrimonium chloride	Listed	DSL	Listed	Listed	Exempt	Select	Listed	Listed
2	Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer	Listed	Listed	Listed	Listed	Exempt	Select	Listed	Listed
3	Aqua	Listed	Listed	Listed	Listed	Listed	Select	Listed	Listed
4	Sodium Hydroxide	Listed	Listed	Listed	Listed	Listed	Select	Listed	Listed
5		Select	Select	Select	Select	Select	Select	Select	Select
6		Select	Select	Select	Select	Select	Select	Select	Select
7		Select	Select	Select	Select	Select	Select	Select	Select
8		Select	Select	Select	Select	Select	Select	Select	Select
9		Select	Select	Select	Select	Select	Select	Select	Select
10		Select	Select	Select	Select	Select	Select	Select	Select

General Comments/Notes:

G. Impurity Profile: Please refer to General Form Instructions for explanation.

Impurities/Residues/Catalysts/Monomers/By-Products An impurity is any chemical substance that is unintentionally present. List all impurities (regardless of amount).	**CAS #**	**Max Level in RM**	**% or ppm or ppb**	**Comments**
Coco Diethanolamide	68603-42-9	0.1	%	By Product
Diethanolamine	111-42-2	50	ppm	By Product
Acrylamidopropyltrimonium Chloride	45021-77-0	200	ppm	Residual
Acrylamide	79-06-1	70	ppm	Residual
Dihydroxypropyltrimonium chloride	34004-36-9	0.5	%	By Product
n-(3-chloro-2-hydroxypropyl) trimethylammonium chloride	34004-36-9	0.01	%	By Product
Sodium Chloride	7647-14-5	0.7	%	By Product

Sodium Borate	1303-96-4	<70	ppm	Impurity

Section 2: Regulatory Status: *Instructions for Section 2: see page 4*

Instructions: Provide any known restrictions on this material for use in cosmetic products: For example, restrictions relating to UV Filters, colorants or preservatives or other restrictions noted in Annex III of the Cosmetic Directive, CIR. or Canadian Hot List

A. Restrictions:

Country	Restriction (% and approved use if any)
US	Guar Hydroxypropyltrimonium Chloride, Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer, Sodium Hydroxide - CIR reviewed
Canada	
EU	Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer listed in Annex III of EC1223/2009 - Product type, body parts: (a) Body- leave-on products (b) Other products(a) Maximum residual acrylamide content 0.1 mg/kg (b) Maximum residual acrylamide content 0.5 mg/kg. Sodium Hydroxide listed in Annex III of EC1223/2009 - Maximum concentration in ready for use preparation: (a) 5% by weight (*) (b)1. 2% by weight (*) 2. 4.5% by weight (*) (*) The quantity of sodium, potassium or lithium hydroxide is expressed as weight of sodium hydroxide. In case of mixtures, the sum should not exceed the limits given in column g.
Australia	
China	Guar Hydroxypropyltrimonium Chloride, Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer, Sodium Hydroxide listed in IECIC CFDA 2015 list.
Japan	
Korea	
Other:	

B. Compliance:

Compliance with Regulations:	Yes or No?	Description
Are any of the ingredients a known Carcinogen, Mutagen or Reproductive Toxicant as defined under European Regulation (EC) No. 1272/2008?	Select	Refer to CMR statement
Does the raw material as supplied contain any ingredients or impurities identified on the Substances of Very High Concern List under the REACH (NUMBER)	Select	Please refer to Positioning Letter on SVHC and REACH letter
Are all of the ingredients compliant with the European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures?	Yes	
Are all of the ingredients in compliance with the European Cosmetic Regulation (EC) No. 1223/2009?	Yes	
Are any of the ingredients or impurities listed by California Proposition 65?	Select	Refer to US SDS section 15
Are any of the ingredients declarable under the California Safe Cosmetics	Select	

Act (SB 484)?		
Are any of the ingredients or impurities found to be Carcinogenic by NTP?	Select	Refer to US SDS section 11
Are any of the ingredients or impurities found to be Carcinogenic by IARC?	Select	Refer to US SDS section 11

****Please attach the REACH status and summary (including any components that may require authorization) for the material.**

Animal Testing:	**Yes or No?**	**Description**
Are you in compliance with the European Cosmetic Regulation (EC) No. 1223/2009 prohibiting animal testing after a certain date?	Yes	
Has your company conducted or commissioned any animal testing on this raw material, or are you aware of any such animal testing conducted by a third party? Please specify most recent testing date.	Select	Refer to Animal testing statement
If testing was conducted post September 11, 2004, please specify date; describe purpose and endpoints for the test(s).	Refer to Animal testing statement	

Volatile Organic Content	**Description**
Are any of this material's ingredients classified as a VOC?	Not Applicable
Total Raw Material VOC content in % (wt/wt) **HVOC**	
MVOC	
LVOC	
VOC Exempt?	

Section 3: Physical Chemical Properties

Instructions for Section 3: see page 4

A. Physical Form:

The material is supplied as Select

The physical parameters reported here are applicable to the material as it is supplied. Select

If no is chosen, explain: Refer to Safety Data Sheet

B. Physical Constants:

Physical Parameter	Value	Additional Information
Molecular Weight*		Select
Specific Gravity		
Partition Coefficient (K_{ow})		
Melting Point	**°C**	Select
Boiling Point	**°C**	Select
Freezing Point	**°C**	Select
Flash Point	**°C**	Select
Minimum Ignition Temperature	**°C**	Select
Spectral Data (As applicable)		
UV/Visible	Select	
IR	Select	
Mass	Select	
Fluorescence	Select	
NMR	Select	
Separation/ Analysis Data		
GC	Select	
HPLC	Select	
HPTLC	Select	

*Average molecular weight for key component.

Please indicate SMILES notation for the key component:

Note: If physical property data is included in the attached MSDS, check here: ☐

Section 4. Human Safety

Instructions for Section 4: see page 5

Please supply robust summaries of the tests performed as an attachment.

The testing identified here was completed on the material as it is supplied. **Select**

If the answer is "no," please explain.

Please specify when *in vitro* models are used.

A. Testing Summary:

Test	*Protocol*	*Date*	*Result*
Acute Oral Toxicity			
Sub chronic Toxicity (28 / 90 day test)			
Dermal Irritation			
Dermal Sensitization			
Dermal Absorption			
Mucous Membrane Irritation (Eye)			
Mutagenicity (Ames)			
Genotoxicity			
Carcinogenicity			
Inhalation Toxicity			
Reproductive Toxicity			
Comedogenicity			
Photo-irritation			
Photo-toxicity			
Photosensitization			
Other:			
Other:			
Other:			
Other:			
Other:			

General Comments/Notes: ***Refer to SDS. Tox summary will be provided upon separate request***

B. Materials of Concern:

Material(s) of Concern	**CAS#**	***ALL SOURCES:* Total Inclusion Level %**	***Added Ingredient Contribution* Inclusion Level %**	***Natural Source Contribution* Inclusion Level %**
Refer to impurity profile 'G'				

C. Declarable Allergens:

Regulated Allergens	**CAS#**	**Does not contain**	***ALL SOURCES* Total Inclusion Level %**	***Added Ingredient Contribution* Inclusion Level %**	***Natural Source Contribution* Inclusion Level %**
Alpha-Isomethyl Ionone	127-51-5	☒			
Amyl cinnamal	122-40-7	☒			
Amyl cinnamyl alcohol	101-85-9	☒			
Anise alcohol	105-13-5	☒			
Benzyl alcohol	100-51-6	☒			
Benzyl benzoate	120-51-4	☒			
Benzyl cinnamate	103-41-3	☒			
Benzyl salicylate	118-58-1	☒			
Butylphenyl methylpropional	80-54-6	☒			
Cinnamal	104-55-2	☒			
Cinnamyl alcohol	104-54-1	☒			
Citral	5392-40-5	☒			
Citronellol	106-22-9	☒			
Coumarin	91-64-5	☒			
Eugenol	97-53-0	☒			
Isoeugenol	97-54-1	☒			
Evernia Furfuracea (Treemoss) Extract	90028-67-4	☒			
Evernia Prunastri (Oakmoss) Extract	90028-68-5	☒			
Farnesol	4602-84-0	☒			
Geraniol	106-24-1	☒			
Hexyl cinnamal	101-86-0	☒			
Hydroxycitronellal	107-75-5	☒			
Hydroxyisihexyl 3-cyclohexene carboxaldehyde (Lyral)	31906-04-4	☒			
Limonene	5989-27-5	☒			
Linalool	78-70-6	☒			
Methyl 2-octynoate	111-12-6	☒			

Section 5. Environmental Impact. *Instructions for Section 5: see page 6*

Please supply robust summaries of the tests performed as an attachment. The testing identified here was completed on the material as it is supplied. **Select** If the answer is "no," please explain. Please refer to section 12 of SDS

Endpoint	*Protocol*	*Date*	*Result*
Aquatic Toxicity			
Short-term toxicity testing on *Daphnia**			
Long-term toxicity testing on *Daphnia*			
Growth inhibition study on algae			
Short-term toxicity testing on fish*			
Long-term toxicity testing on fish (OECD 210, OECD 212 or OECD 215)			
Activated sludge respiration inhibition testing			
Nitrification inhibition testing			
Degradation			
Biodegradability Study			
Simulation testing on ultimate degradation in surface water			
Soil simulation testing			
Sediment simulation testing			
Aerobic rate of biodegradation (please specify media)			
Anaerobic rate of biodegradation (please specify media)			
Hydrolysis as a function of pH			
Identification of degradation products			
Fate & Behavior in the Environment			
Life cycle analysis (LCA)			
Adsorption/desorption screening study			
Bioconcentration in an aquatic species			
Effects on Organisms			
Short-term toxicity testing on earthworms*			
Long-term toxicity testing on earthworms			
Long-term toxicity testing on soil invertebrates other than earthworms			
Effects on soil microorganisms			
Short-term toxicity testing to plants*			
Long-term toxicity testing to plants			
Long-term toxicity testing to sediment organisms			
Long-term or reproductive toxicity testing to birds			

Section 6: Plant Derived: *Instructions for Section 6: see page 7.*

Please attach a manufacturing flow chart specifying mode of isolation or extraction. For materials that have identified plant or combination feedstock origin, or contain more than one plant species please fill out one for each species identified.

Please specify plant species Guar hydroxypropyltrimonium chloride - Legume Cyamopsis tetragonolobus

Please specify plant part(s) used to make this material Seed

Extract % Solids %

If a marker compound is included, or available please identify and specify level.

Please specify Phylogenetic name:

Genetically modified? Yes ☐ No☒ Unknown ☐

If the INCI name includes the phylogenic name of the plant, please answer the following questions:

1. Is your Raw Material included in the IFRA guidelines? Yes ☐ No☐
2. If 'Yes', does the Raw Material meet the IFRA guidelines? Yes ☐ No☐
3. If 'Yes', please specify the amendment:
4. Revision Date:
5. Was the plant / botanical /fragrance screened for pesticides? Yes ☐ No☐
6. If 'Yes', what are the pesticide residue levels?
7. Do the pesticide residues present meet the European Pharmacoposia Guidelines? Yes ☐ No☐
8. Does the Raw Material contain any denatured alcohol? Yes ☐ No☒
9. If "Yes", please specify the denaturant(s):

Does the botanical contain, by addition or as a processing aid, any of the following nut/seed products?

Materials of Concern	**Does Not Contain**	**All Sources Total Inclusion Level %**	**Added Ingredient Contribution Inclusion Level %**	**Natural Source Contribution Inclusion Level %**
Tree Nuts --	☒			
Almonds	☒			
Brazil nuts	☒			
Cashews	☒			
Chestnuts	☒			
Cobnuts	☒			
Hazelnuts (Filberts)	☒			
Macadamia nuts	☒			
Pecans	☒			
Pistachio nuts	☒			
Shea nuts	☒			
Seed products, oils or derivatives --	☒			
Peanuts	☒			
Sesame seed	☒			
Sunflower seed	☒			
Cotton seed	☒			
Canola (Rapeseed)	☒			
Other (please specify and describe)	☒			

Section 7: TSE Certification: *Instructions for Section 7: see page 7*

The information captured here is intended to collect details on components that are derived from internal organs or connective tissues of animals.

	Ingredient	Identify Animal Species	Identify Source Organs	Age of Animal	Country of Origin	BSE Country Status GBR#
1	**Not applicable Product is made only from non-animal derived raw materials**	Select				
2		Select				
3		Select				
4		Select				
5		Select				
6		Select				
7		Select				
8		Select				
9		Select				
10		Select				

** Category rating based on the EU Commission scientific steering committee (SCC) Regulation 999/2001-Geographical Risk of Spongiform Encephalopathy (GBR) Adopted on January 11, 2002. Updated on October 31 2007. As noted on the EFSA website.

NOTE: Level I--Highly Unlikely, Level II--Unlikely but Not Excluded, Level III--Likely but Not Confirmed or Confirmed at a Lower Level, Level IV--Confirmed at a Higher Level

Certification of Isolation Method:

The material described in the table above is certified to be classified as a Category 3 under **Regulation (EC) No 1774/2002.** As such the material shall be compliant with Articles 6 & 7 including:

(b) processed in a processing plant approved in accordance with Article 13 using any of processing methods 1 to 5, in which case the resulting material shall be permanently marked, where technically possible with smell, in accordance with Annex VI, Chapter I, and disposed of as waste either by incineration or by co-incineration in an incineration or co-incineration plant approved in accordance with Article 12 or in a landfill approved under Directive 1999/31/EC;
(c) processed in a processing plant approved in accordance with Article 17;
(d) transformed in a technical plant approved in accordance with Article 18;

and suitable for its intended use.

Global Regulatory Customer Request Team_AS — Analyst
Name of Certifying Person — Title

29-Jul-2020
Date