Ashland always solving	Page: 1
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : N-Hance™ CCG 45

CONDITIONING AGENT

™ Trademark, Ashland or its subsidiaries, registered in

various countries

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

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible Dust :

Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

Causes serious eye irritation.

Ashland always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

insing

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		92.1336
MODIFIED		Eye Irrit. 2A; H319	

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.

Ashland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

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

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.

Special protective equipment

for firefighters

: 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.

Ashland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

: 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 : 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.

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.

Conditions for safe storage : Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

No smoking.

Materials to avoid : No materials to be especially mentioned.

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

Ashland always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

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 resistant gloves (consult your safety equipment

supplier).

Wear as appropriate:

Safety shoes

Hygiene measures : Avoid breathing dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules, powder

Physical state : solid

Colour : off-white

Odour : slight, mild

Odour Threshold : No data available

pH : 9 - 11

Concentration: 1 % (as aqueous solution)

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Ashland always solving	Page: 6
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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 : ca. 610 kg/m3

Solubility(ies)

Water solubility : soluble, Limited by viscosity

Solubility in other solvents : No data available

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.

Ashland always solving	Page: 7
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

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.

Components:

CATIONIC GUAR GUM, MODIFIED:

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

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.

Ashland always solving	Page: 8
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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.

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

Ashland always solving	Page: 9
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

Components:

CATIONIC GUAR GUM, MODIFIED:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 28 d

Method: OECD Test Guideline 301D

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.

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.

Ashland always solving	Page: 10
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

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_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

Ashland always solving	Page: 11
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

Not dangerous goods	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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

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

onition in the political in the control of the cont	•,		
Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
SODIUM HYDROXIDE	1310-73-2	1000	217391

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

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

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

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 : All components of this product are on the Canadian DSL

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

Ashland always solving	Page: 12
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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

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

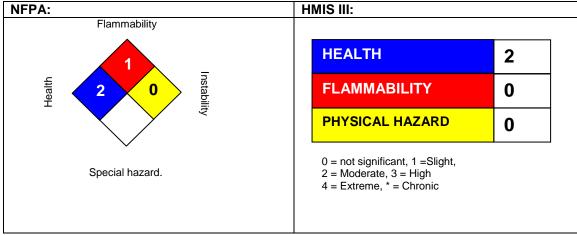
Inventories

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: 11/08/2016



NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements

H319 Causes serious eye irritation.

Ashland always solving	Page: 13
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT ™ Trademark, Ashland or its subsidiaries, registered in various countries 432734	Version: 1.3

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"

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

Ashland always solving	Page: 14
SAFETY DATA SHEET	Revision Date: 11/08/2016
	Print Date: 6/22/2017
	SDS Number: R0703328
N-Hance™ CCG 45 CONDITIONING AGENT	Version: 1.3
™ Trademark, Ashland or its subsidiaries, registered	
in various countries	
432734	

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