## SAFETY DATA SHEET

## Lattice® NTC 80 Microcrystalline Cellulose and Sodium Carboxymethylcellulose

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



**SDS #**: NTC80-INBA500-B **Revision date**: 2019-05-01

Format: EU Version 2.06

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) NTC80-INBA500-B

Product Name Lattice® NTC 80 Microcrystalline Cellulose and Sodium Carboxymethylcellulose

Synonyms Microcrystalline cellulose (INCI Name): MCC, cellulose gel; Sodium

Carboxymethylcellulose: NaCMC, CMC, SCMC, Carboxymethyl ether, Sodium CMC,

Sodium salt, Cellulose gum

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

Recommended Use: Industrial

**Restrictions on Use:** See section 16 for more information

1.3. Details of the supplier of the safety data sheet

Supplier

**DuPont Nutrition Ireland** 

Wallingstown Little Island Cork, Ireland

+353 21 451 7200 (General Information - Cork, Ireland) sds.enablers@dupont.com (E-Mail - General Information)

\*\*\*

For further information, please contact:

Contact point E-Mail: sds.enablers@dupont.com

Phone: +1 800 255 6837; +1 913 764 8100 (General information - U.S.A.)

\*\*\*

1.4. Emergency telephone number

**Emergency telephone** 

For leak, fire, spill or accident emergencies, call: +1 (800) 424-9300 (CHEMTREC - U.S.A.)

+1 (703) 527-3887 (CHEMTREC - Collect - All Other Countries)

+353 21 451 7200 (DuPont Plant - Cork, Ireland) +1 (303) 595-9048 (Medical - U.S. - Call Collect)

# Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

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### 2.2. Label elements

#### Hazard pictograms

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

# 2.3. Other hazards

Excessive inhalation of dust can mechanically impede respiration. Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway. Aspiration or inhalation of this product could cause chemical pneumonitis.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

The product is a mixture, not a substance.\*\*\*

#### 3.2 Mixtures\*\*\*

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Microcrystalline cellulose	Present***	9004-34-6	-	Not classified	REACH Exempt
Sodium carboxymethylcellulos e	-	9004-32-4	-	Not classified	Partial REACH Exemption

# **Section 4: FIRST AID MEASURES**

# 4.1. Description of first aid measures

General Advice When symptoms persist or in all cases of doubt seek medical advice.\*\*\*

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if eye

irritation develops or persists.

**Skin Contact** Wash with water and soap as a precaution.

**Inhalation** Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists,

obtain medical attention.

**Ingestion** Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical

attention if symptoms occur.

# 4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed

Difficulty breathing. Cough.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary

Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic and supportive.

# **Section 5: FIRE FIGHTING MEASURES**

# 5.1. Extinguishing media

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## **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Unsuitable extinguishing media

None known

#### 5.2. Special hazards arising from the substance or mixture

Avoid dust formation. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air.). Avoid breathing dust. Powder may become slippery when wet. For personal protection see section 8.

For further clean-up instructions, call DuPont Emergency Hotline number listed in Section 1 "Product and Company Identification" above.\*\*\*

# For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

See Section 12 for additional Ecological Information.

# 6.3. Methods and material for containment and cleaning up

Methods for Containment Dust deposits should not be allowed to accumulate on surfaces, as these may form an

explosive mixture if they are released into the atmosphere in sufficient concentration.

Methods for cleaning up Sweep, vacuum or shovel into suitable containers for disposal. Nonsparking tools should be

used. Washdown water is not recommended. Powder may become slippery when wet.

#### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

# Handling

Handle in accordance with good industrial hygiene and safety practice. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powdered material can build static electricity when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmosphere. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage**

Store at less than 25 °C, in tightly closed containers. Keep out of direct sunlight. Store in dry environment away from heat and sources of ignition, i.e., steam pipes, radiant heaters, hot air vents or welding sparks. Do not store with strong smelling materials.

#### 7.3. Specific end use(s)

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# **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Chemical name	European Union	The United Kingdom	France	Spain	Germany
Microcrystalline cellulose	=	STEL 20 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3***</sup>	TWA 10 mg/m <sup>3***</sup>	=
9004-34-6		STEL 12 mg/m <sup>3</sup>			
		TWA 10 mg/m <sup>3</sup>			
		TWA 4 mg/m <sup>3***</sup>			
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Microcrystalline cellulose	=	TWA 10 mg/m <sup>3***</sup>	=	=	=
9004-34-6		-			
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Microcrystalline cellulose	=	TWA 3 mg/m <sup>3***</sup>	=	=	TWA 10 mg/m <sup>3</sup>
9004-34-6					STEL 30 mg/m <sup>3***</sup>

**Derived No Effect Level (DNEL)** No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls

Engineering measures It is recommended that all dust control equipment such as local exhaust ventilation and

material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression or an oxygen-deficient environment. Use only

appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

**Eye/Face Protection** Safety glasses.

Hand Protection Protective gloves.

**Skin and Body Protection** Minimize skin contamination by following good industrial hygiene practices.

**Respiratory Protection**Local nuisance dust standards apply. In case of insufficient ventilation wear suitable

respiratory equipment.

General information Protective engineering solutions should be implemented and in use. These

recommendations apply to the product as supplied. If the product is used in mixtures, contact an appropriate protective equipment supplier or industrial hygienist for more

information.

**Environmental exposure controls** See Section 12 for additional Ecological Information.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Solid

**Appearance** Free flowing powder Dry powder

Odor Odorless
Color Off-white

Odor threshold No information available

**pH** 6.0 - 8.0

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash pointNo information availableEvaporation RateNo information available

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Flammability (solid, gas) Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility Dispersible in water Solubility in other solvents No information available No information available **Partition coefficient** No information available **Autoignition temperature Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidizing properties** No information available

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Relative density
Bulk density
Kst
No information available
No information available
No information available
(H2O = 1) 0.6 g/cc
>0 bar m/s

# Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Not applicable

## 10.2. Chemical stability

Stable under recommended storage conditions.

## **Explosion data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge S

Static electricity might be sufficient to ignite dust clouds. Possibility of ignition will depend on the minimum ignition energy (MIE) and the type of operations undertaken with the material. MIE values are not provided in this SDS.

# 10.3. Possibility of hazardous reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### **Hazardous reactions**

None under normal processing.

#### 10.4. Conditions to avoid

Dust formation. Excessive heat. Humid air. Sparks.

# 10.5. Incompatible materials

Oxidizing agents. Strong acids.

# 10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon monoxide (CO) and Carbon dioxide (CO2).\*\*\*

# **Section 11: TOXICOLOGICAL INFORMATION**

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# 11.1. Information on toxicological effects

## **Acute toxicity**

#### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

# **Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Microcrystalline cellulose	> 5 g/kg (Rat )***	> 2 g/kg (Rabbit)> 2000	> 5800 mg/m³ (Rat) 4 h***	
-		mg/kg (Rabbit)***		
Sodium carboxymethylcellulose	= 27000 mg/kg (Rat)***	>2 g/kg (Rabbit)	>5800 mg/m³ (Rat) 4 h	

Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available.

Sensitization Not expected to be sensitizing based on the components.

Chronic toxicity Product does not present a chronic toxicity hazard based on known or supplied information.

**Mutagenicity** No known mutagenic or teratogenic effects.

**Carcinogenicity** No information available.

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

STOT - single exposure None known.

**STOT - repeated exposure**None noted in chronic animal studies.

Aspiration hazard Aspiration may cause chemical pneumonitis. Excessive inhalation of dust can mechanically

impede respiration.

# **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

The environmental impact of this product has not been fully investigated.

# 12.2. Persistence and degradability

Expected to biodegrade, based on component information.

# 12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

## 12.4. Mobility in soil

## Mobility in soil

No information available.

## **Mobility**

No information available.

# 12.5. Results of PBT and vPvB assessment

No information available.

# 12.6. Other adverse effects

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None known

# **Section 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods

Waste from residues / unused

Dispose of in accordance with the European Directives on waste and hazardous waste.

products

**Contaminated Packaging** Dispose of in accordance with federal, state and local regulations.

# **Section 14: TRANSPORT INFORMATION**

#### IMDG/IMO

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine Pollutant	Not applicable
44.6. Chaolal Dravialana	None

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

**IBC Code** 

## RID

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
4400 110 11	

14.6 Special Provisions None

## ADR/RID

14.1	UN/ID no	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Hazard class	Not regulated
14.4	Packing Group	Not regulated
_	Environmental Hazard	Not applicable
14.6	Special Provisions	None

# ICAO/IATA

14.1	UN/ID no	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Hazard class	Not regulated
14.4	Packing Group	Not regulated
14.5	Environmental Hazard	Not applicable
440	Consolal Descriptions	NI

**14.6 Special Provisions** None

# **Section 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **European Union**

# Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

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This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## **Persistent Organic Pollutants**

Not Applicable

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

## **International Inventories**

This product is intended for use as a food additive in foodstuffs within the scope of Regulation (EU) 1333/2008, or as an additive in animal feedingstuffs within the scope of Regulation (EC) 1831/2006, or for use in medicinal products for human or veterinary use within the scope of Regulation (EC) No 726/2004, Directive 2001/82/EC and Directive 2001/83/EC. When used as such, Title II (Registration) of Regulation 1907/2006 (REACH) does not apply.

Chemical name	TSCA	DSL	EINECS/ELINC	ENCS	China	KECL (Korea)	PICCS	AICS
	`	(Canada)	S (Europe)	(Japan)	(IECSC)		(Philippines)	(Australia)
	States)							
Microcrystalline cellulose 9004-34-6	X***	X***	X***	X***	X***	X***	X***	X***
Sodium carboxymethylcellulose 9004-32-4	X***	X***		X***	X***	X***	X***	X***

#### 15.2. Chemical safety assessment

No information available

# **Section 16: OTHER INFORMATION**

# Key or legend to abbreviations and acronyms used in the safety data sheet

<u>Legend</u>

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

**DNEL:** Derived No Effect Level (DNEL)

**EINECS**: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonized System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

**LD50**: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

**SVHC**: Substances of Very High Concern for Authorization:

**TWA:** time weighted average

**vPvB:** very Persistent and very Bioaccumulative

**Revision date:** 2019-05-01

Reason for revision: \*\*\* Indicates updated section.\*\*\*

#### **Disclaimer**

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. DuPont Nutrition USA, Inc. believes that the information Page 8/9

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#### **Product Suitability**

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**End of Safety Data Sheet**