



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 10-Nov-2023

Revision Number 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Lattice® NTC-61
Microcrystalline Cellulose / NaCMC
Industrial Grade

Product Code(s) NTC61-INBA500

Pure substance/mixture Mixture

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

Recommended use Industrial

Uses advised against None under normal use conditions

1.3. Details of the supplier of the safety data sheet

Supplier

International Flavors and Fragrances, Inc
Wallingstown
Little Island
Cork, Ireland

+353 21 451 7200 (General Information - Cork, Ireland)

E-mail address

sds.genencor@iff.com

1.4. Emergency telephone number

See section 16 for more information***

Emergency Telephone - §45 - (EC)1272/2008

Poison control centre phone number	Italy: Telephone numbers of the main poison control centers (CAV) active 24/24h: CAV "Osp. Pediatrico Bambino Gesù", Piazza Sant'Onofrio 4, 00165 Roma, Tel. 0668593726 Az. Osp. Univ. Foggia, Via le Luigi Pinto 1, 71122 Foggia, Tel. 800183459 Az. Osp. "A. Cardarelli", Via A. Cardarelli 9, 80131 Napoli, Tel. 081-5453333 CAV Policlinico "Umberto I", Via le del Policlinico 155, 00161 Roma, Tel. 06-49978000 CAV Policlinico "A. Gemelli" Largo Agostino Gemelli 8, 00168 Roma, Tel. 06-3054343 Az. Osp. "Careggi" U.O. Tossicologia Medica, Largo Brambilla 3, 50134 Firenze, Tel. 055-7947819 CAV Centro Nazionale di Informazione Tossicologica, Via Salvatore Maugeri 10, 27100 Pavia, Tel. 0382-24444 Osp. Niguarda Ca' Granda, Piazza Ospedale Maggiore 3, 20162 Milano, Tel. 02-66101029 Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS 1, 24127 Bergamo, Tel. 800883300 Azienda Ospedaliera Integrata Verona, Piazzale Aristide Stefani 1, 37126 Verona, Tel. 800011858
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	Austria: +43 (0) 14064343 Belgium: +32 (0) 70245245 Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 Cyprus: 1401 (only from within Cyprus) Czech Republic: +420 224 919 293 Denmark: +45 8212 1212 Estonia: +372 7943 794 Finland: +0800 147 111 (only from within Finland) France: + 33 (0)1 45 42 59 59 Germany: +49 (0) 55119240 Greece: +30 2107793777 Hungary: +36-80-201-199 Iceland: +543 1000 (only from within Iceland) Ireland: +353 (0) 18379964 Latvia: +371 67042473 Liechtenstein: +41 442 515 151 Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 Malta: +2122 4071 (only from within Malta) the Netherlands: +31 (0)88 755 8000 (only for medical professionals) Norway: +22 59 13 00 (only from within Norway) Poland: +48 (22) 6 19 08 97 Portugal: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: +386 (0) 1 522 50 50 Spain: +34 91 562 04 20 Sweden: +010-456 6700 (only from within Sweden for less urgent cases; urgent cases: 112) Switzerland: +41 442 515 151
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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]***

2.2. Label elements

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

2.3. Other hazards

WARNING. May form combustible dust concentrations in air. The components in this formulation do not meet the criteria for classification as PBT or vPvB.***

SECTION 3: Composition/information on ingredients

3.2 Mixtures***

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Microcrystalline Cellulose 9004-34-6	85 - 90	No data available	232-674-9	Not classified	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Microcrystalline Cellulose 9004-34-6	-	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	5.8	No data available	No data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	When in doubt or if symptoms are observed, get medical advice.***
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.***
Eye contact	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.***
Skin contact	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.***
Ingestion	IF SWALLOWED: 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

Symptoms	Get medical attention if irritation or other symptoms occur.***
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.***
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Foam. Dry powder. Water spray. Carbon dioxide (CO₂).***

Unsuitable extinguishing media Keep product and empty container away from heat and sources of ignition. Do not use water jetstream.***

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.***

Hazardous combustion products Smoke production.***

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.***

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use personal protection recommended in Section 8. Sweep up to prevent slipping hazard.***

For emergency responders Use personal protection recommended in Section 8.***

6.2. Environmental precautions

Environmental precautions Clean contaminated objects and areas thoroughly observing environmental regulations.***

6.3. Methods and material for containment and cleaning up

Methods for containment Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Dispose of in accordance with local regulations.***

Methods for cleaning up Use industrial vacuum cleaners approved for combustible dust and area electrical classification.***

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.***

6.4. Reference to other sections

Reference to other sections See section 8 for more information.***

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Minimise dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA- 654).***

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.***

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep/store only in original container. Keep container tightly closed in a dry and well-ventilated place.***

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Based on data available for ingredients

Chemical name	European Union	United Kingdom	France	Spain	Germany TRGS
Microcrystalline Cellulose 9004-34-6	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 20 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-

Chemical name	Italy MDLPS	Portugal	Netherlands	Finland	Denmark
Microcrystalline Cellulose 9004-34-6	-	TWA: 10 mg/m ³	-	TWA: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³ ***

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Microcrystalline Cellulose 9004-34-6	-	TWA: 3 mg/m ³	TWA: 3 mg/m ³	-	TWA: 10 mg/m ³ STEL: 30 mg/m ³

Chemical name	Belgium	Sweden	Croatia	Türkiye	Greece
Microcrystalline Cellulose 9004-34-6	TWA: 10 mg/m ³	NGV: 2 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 20 mg/m ³	ZAOD: 15 mg/m ³ (Toplam toz) ZAOD: 5 mg/m ³ (Solunabilir toz)***	TWA: 5 mg/m ³

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation. Avoid generation of dust and aerosols.***

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).***
Hand protection	Wear protective gloves.***
Skin and body protection	Wear protective gloves and protective clothing.***
Respiratory protection	If exposure limits are likely to be exceeded or if irritation or other symptoms are experienced, NIOSH/MSHA or EN 136 approved respiratory protection should be worn.***
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Physical state	Solid
Colour	White to off-white
Odour	Odourless
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	Not applicable
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	None known
Relative vapour density	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Water solubility	Dispersible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Particle characteristics		
Particle Size		Not applicable
Particle Size Distribution		Not applicable

9.2. Other information

Softening point	No data available
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9.2.1. Information with regards to physical hazard classes

Not applicable	
Explosive properties	No data available.

9.2.2. Other safety characteristics None known
Sensitivity to mechanical impact No***

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not expected.***

10.2. Chemical stability

Stability Stable under normal conditions.***

Explosion data

Sensitivity to mechanical impact No.***

Sensitivity to static discharge Yes.***

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.***

Hazardous polymerisation Hazardous polymerisation does not occur.***

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. May form combustible dust concentrations in air.***

10.5. Incompatible materials

Incompatible materials Keep away from heat, flames and sparks.***

10.6. Hazardous decomposition products

Hazardous decomposition products No hazardous decomposition products known.***

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

Acute toxicity

Inhalation No information or data specific to the product on this toxicological (health) effect is available.

Eye contact No information or data specific to the product on this toxicological (health) effect is available.

Skin contact No information or data specific to the product on this toxicological (health) effect is available.

Ingestion No information or data specific to the product on this toxicological (health) effect is available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Get medical attention if irritation or other symptoms occur.***

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Respiratory or skin sensitisation No information available.***

Germ cell mutagenicity No information available.***

Carcinogenicity No information available.***

Reproductive toxicity No information available.***

STOT - single exposure No information available.***

STOT - repeated exposure No information available.***

Aspiration hazard No information available.***

Numerical measures of toxicity

Component Information Classification based on data available for ingredients

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Microcrystalline Cellulose	> 5 g/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	> 5800 mg/m ³ (Rat) 4 h

Microcrystalline Cellulose 9004-34-6

Eye irritation	May cause irritation
Skin irritation	May cause skin irritation
Respiratory irritation	Not expected
Sensitisation	Not expected
Reproductive effects	Not expected
Mutagenic effects	Not expected
Systemic Toxicity	Not expected
Carcinogenicity	Not expected
Teratogenicity	Not expected

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Based on data available for ingredients.***

12.2. Persistence and degradability

Persistence and degradability Based on data available for ingredients.***

12.3. Bioaccumulative potential

Bioaccumulative potential Based on data available for ingredients***

Component Information Based on data available for ingredients***

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on data available for ingredients***

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

Component Information

Microcrystalline Cellulose (9004-34-6)

12.7. Other adverse effects

Other adverse effects No information available.***

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of wastes in an approved waste disposal facility. Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.***

Contaminated packaging Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.***

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2 Extended Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special Precautions for Users
 Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
 14.2 EPNM Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special Precautions for Users
 Special Provisions None
 14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number Not regulated
 14.2 Extended Proper Shipping Name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special Precautions for Users
 Special Provisions None

ADR

14.1 UN number or ID number Not regulated
 14.2 UN proper shipping name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special Precautions for Users
 Special Provisions None

SECTION 15: Regulatory information

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

International Inventories: Based on data available for ingredients

Chemical name	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS
Microcrystalline Cellulose 9004-34-6	X	X	X	-	X	X	X

National regulations

Water hazard class (WGK) Based on data available for ingredients

Chemical name	CAS No.	WGK Classification (AwSV)
Microcrystalline Cellulose	9004-34-6	nicht wassergefährdend (nwg) (non-hazardous to water)

France Occupational Illnesses (R-463-3, France) Based on data available for ingredients

Chemical name	French RG number
Microcrystalline Cellulose 9004-34-6	RG 66

Authorisations and/or restrictions on use:

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Legend

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

Further information ATEX Directive 1999/92/EC, Workplace Requirements for Explosive Atmospheres
ATEX Directive 94/9/EC, Equipment for use in Explosive Atmospheres***

**Use CHEMTREC instead of
Emergency Phone Number**

Belgium: 32-28083237
Bulgaria: 359-32570104
Croatia: 385-17776920
Czech Republic: 420-228880039
Denmark: 45-69918573
Estonia: 372-6681294
Finland: 358-942419014
France: 33-975181407
Germany: 0800-181-7059
Greece: 30-2111768478
Hungary: 36-18088425
Iceland: 354 539 0655
India: 000-800-100-7141
Ireland: 353-19014670
Israel: 972-37630639
Italy: 39-0245557031
Latvia: 371-66165504
Lithuania: 370-52140238
Luxembourg: 352-20202416
Macedonia: 389 2 551 7456
Netherlands: 31-858880596
Nigeria: 234 1 227 8883
Poland: 48-223988029
Portugal: 351-308801773

Romania: 40-37-6300026
Russia: 8-800-100-6346
Saudi Arabia: 966-8111095861
Slovakia: 421-233057972
Slovenia: 38-618888016
South Africa: 0-800-983-611
Spain: 34-931768545
Sweden: 46-852503403
Switzerland: 41-435082011
Ukraine: 380-947101374
United Kingdom: 44-870-8200418 and 44-2038073798***

Revision date 10-Nov-2023

Reason for revision ***Indicates updated section

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet