



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: United States of America

Revision date 29-Sep-2023

Revision Number 2

## 1. Identification

### Product identifier

Product Name Lattice® NT-100

Product Code(s) NT100-INDR050

### Recommended use of the chemical and restrictions on use

Recommended use Pharmaceutical

Restrictions on use None under normal use conditions

### Details of the supplier of the safety data sheet

#### Supplier Address

International Flavors and Fragrances, Inc.  
974 Centre Road  
Wilmington, DE 19805  
+ 1 800 255 6837 (General Information)

#### E-mail address

sds.genencor@iff.com

#### Emergency telephone number

Local (Washington DC): +1 703-741-5970  
Toll Free: 1-800-424-9300

## 2. Hazard(s) identification

### Classification

Combustible dust\*\*\*

Yes\*\*\*

### Label elements

Signal word: Warning\*\*\*

May form combustible dust concentrations in air\*\*\*

### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.\*\*\*

### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
Microcrystalline Cellulose	9004-34-6	95 - 100

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>General advice</b>	When in doubt or if symptoms are observed, get medical advice.***
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.***
<b>Eye contact</b>	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.***
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.***
<b>Ingestion</b>	IF SWALLOWED: Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.***

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

<b>Symptoms</b>	Get medical attention if irritation or other symptoms occur.***
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#### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.***
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### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Water spray. Carbon dioxide (CO2).***
<b>Unsuitable extinguishing media</b>	Keep product and empty container away from heat and sources of ignition. Do not use water jetstream.***
<b>Specific hazards arising from the chemical</b>	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.***
<b>Hazardous combustion products</b>	Smoke production.***
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	No.***
<b>Sensitivity to static discharge</b>	Yes.***

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

## 6. Accidental release measures

### 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.\*\*\*

### 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.\*\*\*

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

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Minimize 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).\*\*\*

### 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.\*\*\*

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** Based on data available for ingredients

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Microcrystalline Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup> ***	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

		fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) STEL: 10 mg/m <sup>3</sup> ***	
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**Appropriate engineering controls**

**Engineering controls** Ensure adequate ventilation. Avoid generation of dust and aerosols.\*\*\*

**Individual protection measures, such as 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.\*\*\*

**9. Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Powder
<b>Physical state</b>	Solid
<b>Color</b>	No information available
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Relative vapor density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

Other information

Explosive properties	No data available
Oxidizing properties	No information available

**10. Stability and reactivity**

Reactivity	Not expected.***
Chemical stability	Stable under normal conditions.***
Possibility of hazardous reactions	None under normal processing.***
Hazardous polymerization	Hazardous polymerization does not occur.***
Conditions to avoid	Heat, flames and sparks. May form combustible dust concentrations in air.***
Incompatible materials	Keep away from heat, flames and sparks.***
Hazardous decomposition products	No hazardous decomposition products known.***

**11. Toxicological information**Information on likely routes of exposureProduct Information

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

Respiratory or skin sensitization	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 toxicityComponent Information

Based on data available for ingredients

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Microcrystalline Cellulose 9004-34-6	> 5 g/kg ( Rat ) ***	> 2 g/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	> 5800 mg/m <sup>3</sup> ( Rat ) 4 h

*Microcrystalline Cellulose 9004-34-6*

<b>Eye irritation</b>	May cause irritation
<b>Skin irritation</b>	May cause skin irritation
<b>Respiratory irritation</b>	Not expected
<b>Sensitization</b>	Not expected
<b>Reproductive effects</b>	Not expected
<b>Mutagenic effects</b>	Not expected
<b>Systemic Toxicity</b>	Not expected
<b>Carcinogenicity</b>	Not expected
<b>Teratogenicity</b>	Not expected

Chemical name	ACGIH	IARC	NTP	OSHA
Microcrystalline Cellulose 9004-34-6	-	-	-	-

**12. Ecological information**

<b>Ecotoxicity</b>	Based on data available for ingredients***
<b>Persistence and degradability</b>	Based on data available for ingredients.***
<b>Bioaccumulative potential</b>	Based on data available for ingredients.
<b>Mobility in soil</b>	No information available.
<b>Other adverse effects</b>	No information available.***

**13. Disposal considerations**

<b>Waste from residues/unused products</b>	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.***
<b>Contaminated packaging</b>	Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.***

**14. Transport information**

<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

**15. Regulatory information**

**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***

**US Federal Regulations****TSCA**

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device is not subject to the notification requirements of the United States of America regulation 40 CFR 720.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA active/inactive designation
Microcrystalline Cellulose	9004-34-6	Present	Active

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical name	California Proposition 65
Microcrystalline Cellulose 9004-34-6	-

**U.S. State Right-to-Know Regulations**

Based on data available for ingredients

Chemical name	New Jersey	Massachusetts	Pennsylvania
Microcrystalline Cellulose 9004-34-6	-	-	-

## 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

Revision date 29-Sep-2023

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Revision Note \*\*\*Indicates updated data since last publication.

### 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**