

# SAFETY DATA SHEET

## COLORTHERM YELLOW 10



Version 3.0      Revision Date: 07/16/2024      SDS Number: 203000002322      Date of last issue: 03/01/2021  
Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : COLORTHERM YELLOW 10

Product code : 000000000002564649

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS  
(412) 809-1000  
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or  
(703) 527-3887 (Outside U.S.A) and mention CCN12916.  
Lanxess Emergency Phone (800) 410-3063.

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

Recommended use : Colorants (pigments and dyestuffs), inorganic


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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
Avoid breathing dust.

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Use only outdoors or in a well-ventilated area.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : FeO(OH)

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum hydroxide	21645-51-2	>= 10 - < 20
Phosphoric acid, aluminum salt (1:1)	7784-30-7	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.  
Get medical attention if symptoms occur.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
Call a physician immediately.

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

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Symptoms : May cause irritation with symptoms of reddening and itching.  
Eye: May cause irritation with symptoms of reddening, tearing and stinging.

: May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Effects : May cause mechanical irritation (abrasion).  
May cause respiratory irritation.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Metal oxides  
Oxides of phosphorus

Further information : Standard procedure for chemical fires.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilled material.  
Avoid breathing dust.  
Provide adequate ventilation.  
Avoid dust formation.  
In case of inadequate ventilation wear respiratory protection.  
Use personal protective equipment.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods and materials for containment and cleaning up : Move containers from spill area.  
Vacuum or sweep up material and place in a designated, labeled waste container.  
Dispose of wastes in an approved waste disposal facility.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8.  
Avoid contact with skin and eyes.  
Provide sufficient air exchange and/or exhaust in work rooms.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Dispose of rinse water in accordance with local and national regulations.  
  
Workers should wash hands and face before eating, drinking and smoking.
- Conditions for safe storage : Store in accordance with local regulations.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

inert or nuisance dust      50 Million particles per cubic foot  
Value type (Form of exposure): TWA (total dust)  
Basis: OSHA Z-3

15 mg/m3  
Value type (Form of exposure): TWA (total dust)  
Basis: OSHA Z-3

5 mg/m3  
Value type (Form of exposure): TWA (respirable fraction)  
Basis: OSHA Z-3

15 Million particles per cubic foot  
Value type (Form of exposure): TWA (respirable fraction)  
Basis: OSHA Z-3

Dust, nuisance dust and particulates      10 mg/m3  
Value type (Form of exposure): PEL (Total dust)  
Basis: CAL PEL

5 mg/m3  
Value type (Form of exposure): PEL (respirable dust fraction)  
Basis: CAL PEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum hydroxide	21645-51-2	TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
Phosphoric acid, aluminum salt (1:1)	7784-30-7	TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH

**Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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### Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline.  
NIOSH approved, air-purifying particulate respirator with N-95 filters.  
  
Dust-protection mask if there is a risk of dust formation.

Hand protection  
Material : Gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : General industrial hygiene practice.  
When using do not eat, drink or smoke.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wash contaminated clothing before reusing.  
Remove contaminated clothing and protective equipment before entering eating areas.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder  
Physical state : solid  
Color : yellow  
Odor : odorless  
Odor Threshold : No data available  
pH : 3.5 - 7.5  
Concentration: 5 %

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Melting point/range            :   > 1,832 °F / > 1,000 °C

Boiling point/boiling range    :   No data available

Flash point                      :   Not applicable

Evaporation rate                :   No data available

Self-ignition                    :   No data available

Burning number                 :   No data available

Upper explosion limit / Upper flammability limit    :   No data available

Lower explosion limit / Lower flammability limit    :   No data available

Vapor pressure                 :   Not applicable

Relative vapor density         :   No data available

Relative density                :   No data available

Density                         :   3.8 g/cm<sup>3</sup> (68 °F / 20 °C)

Bulk density                    :   3,800 kg/m<sup>3</sup>

Solubility(ies)

    Water solubility             :   insoluble

    Solubility in other solvents :   No data available

Partition coefficient: n-octanol/water            :   No data available

Decomposition temperature    :   No data available

Viscosity

    Viscosity, dynamic           :   No data available

    Viscosity, kinematic        :   No data available

Explosive properties            :   No data available

Oxidizing properties            :   No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity                                : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability                        : The product is chemically stable.

Possibility of hazardous reactions    : No dangerous reaction known under conditions of normal use. Dust may form explosive mixture in air.

Conditions to avoid                        : No specific data.

Incompatible materials                    : No specific data.

Hazardous decomposition products     : No hazardous decomposition products are known.

Hazardous decomposition products     : No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity                        : LD50 (Rat): > 5,000 mg/kg

#### Components:

##### Aluminum hydroxide:

Acute oral toxicity                        : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: Yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Dosage caused no mortality

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Result                                        : No skin irritation

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Remarks : Test results on an analogous product

### **Components:**

#### **Aluminum hydroxide:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : Yes

#### **Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

### **Product:**

Result : No eye irritation  
Remarks : Test results on an analogous product

### **Components:**

#### **Aluminum hydroxide:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

### **Components:**

#### **Aluminum hydroxide:**

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitization on laboratory animals.  
GLP : Yes

#### **Germ cell mutagenicity**

Not classified due to lack of data.

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### Components:

#### **Aluminum hydroxide:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: Yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: Yes

#### **Carcinogenicity**

Not classified due to lack of data.

**IARC** No ingredient 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 on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified due to lack of data.

### Components:

#### **Aluminum hydroxide:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 40 - 200 milligram per kilogram  
General Toxicity Parent: NOAEL: 200 mg/kg body weight  
Fertility: NOAEL: >= 1,000 mg/kg body weight  
Early Embryonic Development: NOAEL: >= 1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes  
Remarks: Test results on an analogous product

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Effects on fetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 0 - 192 - 384 milligram per kilogram  
General Toxicity Maternal: NOAEL:  $\geq$  768 mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq$  768 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: No information available.

### STOT-single exposure

May cause respiratory irritation.

#### Components:

##### Aluminum hydroxide:

Assessment : May cause respiratory irritation.

##### Phosphoric acid, aluminum salt (1:1):

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

#### Components:

##### Aluminum hydroxide:

Species : Rat, male  
NOAEL :  $\geq$  302 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 302 mg Al/kg bw/d  
Method : OECD Test Guideline 407  
GLP : No information available.  
Remarks : Subacute toxicity

### Aspiration toxicity

Not classified due to lack of data.



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Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### **Bioaccumulative potential**

#### **Components:**

##### **Aluminum hydroxide:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

##### **Mobility in soil**

No data available

##### **Other adverse effects**

#### **Product:**

Additional ecological information : Ecotoxicological data are not available.  
No known significant effects or critical hazards.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.  
This material and its container must be disposed of in a safe way.  
Empty containers retain product residue; observe all precautions for product.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

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## **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

#### **IATA-DGR**

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Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

### Hazard and Handling Notes.

Not dangerous cargo

Keep separated from foodstuffs

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Specific target organ toxicity (single or repeated exposure)

**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.

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Iron hydroxide oxide yellow	51274-00-1	> 1
Aluminum hydroxide	21645-51-2	10 - 20
sodium sulphate	7757-82-6	< 0.5

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

### TSCA inventory

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|| TSCA : All substances listed as active on the TSCA inventory

### TSCA list

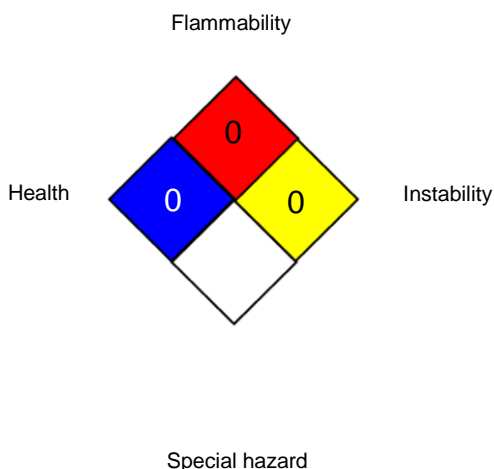
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- CAL PEL : California permissible exposure limits for chemical contaminants (Title 8, Article 107)
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
- ACGIH / TWA : 8-hour, time-weighted average
- CAL PEL / PEL : Permissible exposure limit
- OSHA Z-3 / TWA : 8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Sub-

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stance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.