Safety Data Sheet
acc. to OSHA HCS

Printing date 10/16/2025 **Version 3.00** **Reviewed on 10/08/2025**

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1 Identification

Product identifier
Trade name: **KRONOS 2171**
Other means of identification
Relevant identified uses of the substance or mixture **White pigment for application in cosmetics**

Details of the supplier of the safety data sheet

Manufacturer/Supplier: **KRONOS (US), Inc.**
5430 LBJ Freeway, Suite 1700
Dallas, Tx 75240
+1 (972) 233-1700

Emergency telephone number: **+1-800-424-9300 (CHEMTREC) for transportation emergencies only (US)**
+1-800-866-5600 for other product information (8:00 AM – 5:00 PM, US central time)

2 Hazard(s) identification

Classification of the substance or mixture **The product is not classified, according to the Globally Harmonized System (GHS).**

Label elements
GHS label elements **Not applicable**
Hazard pictograms **Not applicable**
Signal word **Not applicable**
Hazard statements **Not applicable**

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3 Composition/information on ingredients

Chemical characterization: Mixtures

Dangerous components: **Not applicable**
Non-hazardous components **Titanium dioxide**
CAS number: 13463-67-7
EC number: 236-675-5

4 First-aid measures

Description of first aid measures
General information **No special measures required.**

After inhalation **Supply fresh air; consult doctor in case of complaints.**

After skin contact **Wash with water and soap and rinse thoroughly.**

After eye contact **Rinse opened eye for several minutes under running water.**
If symptoms persist consult doctor.

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After swallowing No special measures required.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Use fire fighting measures that suit the environment.
The product is not flammable.

Special hazards arising from the substance or mixture None

Advice for firefighters
Protective equipment: Use protective measures that suit the hazard conditions.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
Ensure adequate ventilation

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: Collect mechanically.
Avoid formation of dust.

Reference to other sections See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling Provide vacuum dust collection if dust is formed.
Information about protection against explosions and fires: The product is not flammable

Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.

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Further information about storage conditions: Store in dry conditions.

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8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

CAS: 13463-67-7 Titanium dioxide

ACGIH - TLV Long-term value: 10 TWA, mg/m³
respirable fraction 1mg/m³ TWA

OSHA - PEL Long-term value: 15* mg/m³
*total dust, 8 hr TWA

Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
Titanium dioxide pigments are not irritants but as with all fine powders can absorb moisture and natural oil from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

Breathing equipment: If workplace exposure limits are exceeded, use respiratory protection according to national regulations.
The respirator must be selected by a technically qualified individual.

Protection of hands: Check protective gloves prior to each use for their proper condition.
Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves: The selection of suitable gloves depends on the type of job, the characteristics of all substances to be handled and on further marks of quality, which may vary from manufacturer to manufacturer. If the product is used in a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state	**Solid.**
Color:	**White**
Odor:	**Characteristic**

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Odor threshold:	Not determined.
Melting point/Melting range:	>1800°C (>3,272°F)
Boiling point/Boiling range:	Not relevant
Flammability:	Product is not flammable.
Flash point:	Not applicable
Auto igniting:	Not applicable
pH-value (100 g/l) at 20°C (68°F):	5.5 - 7.0
Viscosity:	
dynamic:	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure:	
Density at 20°C (68°F):	4.2 g/cm³ (35.05 lbs/gal)
Vapor density	Not applicable.
Other information	
Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not applicable
Danger of explosion:	Product is not explosive.
Evaporation rate	Not applicable.

10 Stability and reactivity

Reactivity	The substance is stable under normal use conditions.
Chemical stability	
Thermal decomposition / conditions to be avoided:	No decomposition under normal use conditions.
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	No further data; see Section 7.
Incompatible materials:	No further data; see Section 7.
Hazardous decomposition products:	No dangerous decomposition products known.

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11 Toxicological information

Information on toxicological effects

Acute toxicity:
LD/LC50 values that are relevant for classification:

CAS: 13463-67-7 Titanium dioxide

Oral	**LD50**	**> 5,000 mg/kg (rat) (OECD 425)**
Dermal	**LD50**	**> 5,000 mg/kg (rabbit)**
Inhalative	**LC50/4h**	**> 6.8 mg/l (rat)**

Primary irritant effect:
on the skin: **OECD 404:**
No irritant effect
on the eye: **OECD 405:**
No irritant effect
Like any foreign body, particles (dust) can cause mechanical irritation.

Sensitization: **OECD 406, OECD 429**
No sensitizing effects.

Subacute to chronic toxicity:

CAS: 13463-67-7 Titanium dioxide

Oral	**NOAEL**	**3,500 mg/kg/d (rat) (90 d)**
Dermal	**NOAEL**	**(-)**
		no relevant data available
Inhalative	**NOAEC**	**10 mg/m³ (rat) (90 d)**

Carcinogenic categories
IARC (International Agency for Research on Cancer)

CAS: 13463-67-7 Titanium dioxide: 2B
NTP (National Toxicology Program)

None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

Toxicity to fish

CAS: 13463-67-7 Titanium dioxide

LC50 > 10,000 mg/l (Sheepshead minnow)
(semi-static, OECD 203 (acute toxicity for fish))

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> 1,000 mg/l (Pimephales promelas)
(static, EPA-540/9-85-006, Acute Toxicity Test for Freshwater Fish)

Toxicity to Daphnia and other aquatic invertebrates

CAS: 13463-67-7 Titanium dioxide

LC50 > 10,000 mg/l (Acartia tonsa)
(ISO 14669 (1999); ISO 5667-16 (1998))

> 1,000 mg/l (Daphnia magna)
(static, OECD 202 (daphnia acute immobilisation test))

Toxicity to algae and aquatic plants

CAS: 13463-67-7 Titanium dioxide

EC50 > 100 mg/l (Pseudokirchneriella subcapitata)
(static, OECD 201 (freshwater alga and cyanobacteria, growth inhibition test))

> 10,000 mg/l (Skeletonema costatum)
(ISO 10253)

Toxicity to sediment organisms

CAS: 13463-67-7 Titanium dioxide

NOEC ≥ 100,000 mg/kg dw (Hyalella azteca)
(semi-static, ASTM 1706)

Persistence and degradability	Not relevant for inorganic substances.
Bioaccumulative potential	Accumulation of the product is not to be expected.
Mobility in soil	The product is immobile in soil.
Other adverse effects	No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation: Material is not a hazardous waste.
Disposal must be made according to all federal, state, and local (municipal) regulations.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number
DOT, ADR/RID/ADN, ADN, IMDG, IATA Not applicable
UN proper shipping name
ADR/RID/ADN Not applicable
ADN, IMDG, IATA Not applicable

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Transport hazard class(es)

DOT, ADR/RID/ADN, ADN, IMDG, IATA

Class	**Not applicable**
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	**Not applicable**
Environmental hazards	**Not an environmentally hazardous substance.**
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	**Not applicable.**
Special precautions for user	**Not applicable.**

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15 Regulatory information

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

SARA

Section 355 (Extremely hazardous substances):

None of the ingredients is listed

Section 313 (Specific toxic chemical listings): **Product contains traces of toxic chemicals subject to reporting requirements of 40 CFR 372:**

CAS: 7439-92-1 Lead: <5 ppm

CAS: 7439-97-6 Mercury: <0.1 ppm

Section 311 (TIER 1 notification)

None of the ingredients is listed.

TSCA and Canada DSL Status:

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients is listed.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

New Jersey Right-to-Know List: CAS: 13463-67-7 Titanium dioxide

All ingredients are listed.

New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

Pennsylvania Right-to-Know List:

CAS: 13463-67-7 Titanium dioxide

Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

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TLV (Threshold Limit Value Notation established by ACGIH)

CAS: 13463-67-7 Titanium dioxide: A4 Not classifiable as human carcinogen

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16 Other information

This information pertains solely to the identified product and includes our reliance on regulations in effect and information from third parties as of the date hereof. It remains the sole responsibility of the customer to determine the suitability of the product when used in specific processes and applications or combined with other materials and to ensure compliance with all relevant laws, regulations, and standards governing those uses. The provision of this information does not constitute a warranty, guarantee, or representation of any kind. No contractual obligations, either express or implied, are created between KRONOS and any recipient of this information.

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Sources **REACH-Registration Dossier**

*** Data compared to the previous version altered.** **Conformes to U.S. OSHA HCS 2024**