

Printing date 29.08.2023 Version number 2.00 (replaces version 1.00) Revision: 16.08.2023

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

1.1 Product identifier

Trade name: KRONOS 2171

CAS Number: 13463-67-7 EINECS Number: 236-675-5

EU REACH Registration number: 01-2119489379-17-xxxx

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

Identified uses of the substance

or mixture White pigment for application in

cosmetics

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: KRONOS INTERNATIONAL, Inc.

Peschstrasse 5

51373 Leverkusen, Germany Tel.: INT +49 214 356-0

EMERGENCY TELEPHONE

NUMBER: KRONOS INTERNATIONAL, Inc. (Germany)

Tel.: INT + 49 214 356-4444

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to

Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

2.2 Label elements Labelling according to

Regulation (EC) No 1272/2008 not applicable not applicable signal word not applicable not applicable not applicable not applicable

Additional information: The products identified in Section 1.1 are not classified pursuant to

Regulation 2020/217 (14th ATP to Regulation (EU) 1272/2008, Annex VI). EUH 210 and EUH 212 are included in Section 2.2 voluntarily.

EUH210 Safety data sheet available on request.

EUH212 Warning! Hazardous respirable dust may be formed when

used. Do not breathe dust.

2.3 Other hazards

Results of PBT and vPvB

assessment

The product does not fulfill the criteria for PBT and vPvB according

to Annex XIII of REACH.

Determination of endocrine-

disrupting properties

The product does not contain substances with endocrine disrupting

properties.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components: not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

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

After eye contact: Rinse opened eye for several minutes under running water.

In case of persistent symptoms consult physician.

After swallowing: No special measures required.

4.2 Most important symptoms and effects, both acute and

delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

The product is not flammable.

5.2 Special hazards arising from

the substance or mixture None

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures Avoid causing dust.

Ensure adequate ventilation

6.2 Environmental precautions: No special measures required.

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6.3 Methods and material for

containment and cleaning up: Collect mechanically.

Avoid causing dust.

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

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe

handling Provide vacuum dust collection if dust is formed.

Information about protection

against explosions and fires: The product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by

storerooms and containers: No special requirements.

Information about storage in one

common storage facility: Not required.

Further information about

storage conditions: Store under dry conditions.

7.3 Specific end use(s)

There are no further specific end uses than those named in section

1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the

workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

General protective and hygienic

measures:

The usual precautionary measures should be adhered to in

handling chemicals.

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.

EN149: FFP2; EN143: P2

Hand protection Requirements according to EN 374

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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 does not only depend on the

material, but also on further marks of quality and varies 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/face protection Safety glasses

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Colour: White

Smell: Characteristic
Odour threshold: Not determined.

Melting point/freezing point: >1800°C

Boiling point or initial boiling point and boiling

range Not relevant

Flammability Product is not flammable.

Flash point: Not applicable pH (100 g/l) at 20°C 5.5 - 7.0

Viscosity:

dynamic: Not applicable.

Solubility in / Miscibility with

Water: Insoluble

Partition coefficient n-octanol/water (log value) Not determined.

Density and/or relative density

Density at 20°C: 4.2 g/cm³
Vapour density Not applicable.

Particle characteristics Percentage of particles with an aerodynamic

diameter ≤ 10 µm in the products identified in

Section 1.1

mean [%] minimum [%] maximum [%] method 0,0071 0,0034 0,0116 EN15051-2

9.2 Other information

Appearance:

Form: Powder

Important information on protection of health and

environment, and on safety.

Self-flammability: Not applicable

Explosive properties: Product is not explosive.

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Evaporation rate Not applicable.

Information with regard to physical hazard

classes

Explosives not applicable not applicable Flammable gases **Aerosols** not applicable not applicable **Oxidising gases** not applicable Gases under pressure Flammable liquids not applicable Flammable solids not applicable Self-reactive substances and mixtures not applicable **Pyrophoric liquids** not applicable Pyrophoric solids not applicable Self-heating substances and mixtures not applicable Substances and mixtures, which emit flammable gases in contact with water not applicable **Oxidising liquids** not applicable **Oxidising solids** not applicable

Organic peroxides not applicable not applicable Corrosive to metals not applicable Desensitised explosives

SECTION 10: Stability and reactivity

10.1 Reactivity The substance is stable under normal use conditions.

10.2 Chemical stability Thermal decomposition /

Conditions to be avoided: No decomposition under normal use conditions

10.3 Possibility of hazardous

reactions No dangerous reactions known

10.4 Conditions to avoid No further data; see Section 7

10.5 Incompatible materials: No further data; see Section 7

10.6 Hazardous decomposition

products: No dangerous decomposition products known

SECTION 11: Toxicological information

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

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

LD/LC50 values that are relevant for classification:

CAS: 13463-67-7 titanium dioxide

LD50 > 5,000 mg/kg (rat) (OECD 425) Oral

LD50 > 5,000 mg/kg (rabbit) Dermal

Inhalative LC50/4h > 6.8 mg/l (rat)

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Skin corrosion/irritation OECD 404:

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JKIII COITOSIOII/IITILALIOII JECD 404.

No irritant effect

Serious eye damage/irritation OECD 405:

No irritant effect

Like any foreign body, particles (dust) can cause mechanical

irritation.

Respiratory or skin sensitisation OECD 406, OECD 429

No sensitizing effects.

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

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

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

Subacute to chronic toxicity:

CAS: 13463-67-7 titanium dioxide

Oral NOAEL 3,500 mg/kg/d (rat) (90 d)

Dermal NOAEL (-)

Inhalative NOAEC 10 mg/m³ (rat) (90 d)

Toxicokinetics, metabolism and

distribution

Dermal absorption can be considered negligible, as titanium dioxide has been shown not to penetrate human skin to any appreciable degree.

11.2 Information on other hazards

Endocrine disrupting properties The product does not contain substances with endocrine disrupting

properties.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

CAS: 13463-67-7 titanium dioxide

LC50 > 10,000 mg/l (Sheepshead minnow)

> 1,000 mg/l (Pimephales promelas)

Toxicity to Daphnia and other aquatic invertebrates

CAS: 13463-67-7 titanium dioxide LC50 > 10,000 mg/l (Acartia tonsa) > 1,000 mg/l (Daphnia magna)

Toxicity to algae and aquatic plants

CAS: 13463-67-7 titanium dioxide

EC50 > 100 mg/l (Pseudokirchneriella subcapitata)

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> 10,000 mg/l (Skeletonema costatum)

Toxicity to sediment organisms

CAS: 13463-67-7 titanium dioxide

NOEC ≥ 100,000 mg/kg dw (Hyalella azteca)

12.2 Persistence and

degradability Not relevant for inorganic substances.

12.3 Bioaccumulative potential Accumulation of the product is not to be expected.

12.4 Mobility in soil The product is immobile in soil.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting

properties.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

European waste catalogue Waste code number according to origin of waste

Uncleaned packagings:

Recommendation: Disposal according to official regulations

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, ADN, IMDG, IATA not applicable

14.2 UN proper shipping name

ADR/RID/ADN not applicable ADN, IMDG, IATA not applicable

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class not applicable

14.4 Packing group

ADR/RID/ADN, IMDG, IATA not applicable

14.5 Environmental hazards Not an environmentally hazardous substance

14.6 Special precautions for user Not applicable

14.7 Maritime transport in bulk according to IMO

instruments Not relevant

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SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances -

Substance is not listed. ANNEX I

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and

electronic equipment - Annex II None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing

under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

15.2 Chemical Safety Assessment

Substances of very high concern (SVHC) according to

REACH, Article 57 The product is not listed as SVHC, it does not contain any

substances of very high concern.

Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Carcinogenicity: In February 2006 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide." Based on rat inhalation studies IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide," IARC's overall evaluation was that "Titanium dioxide is possibly carcinogenic to humans (Group 2b)". This conclusion was based on IARC's guidelines which require such a classification if two or more independent studies in one species carried out at different times or in different laboratories or under different protocols show evidence of tumours.

Department issuing data

specification sheet: **Global Quality Management**

Contact: KRONOS INTERNATIONAL, Inc.

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Date of previous version:

06.12.2022

Version number of previous

version: 1.00

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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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Sources REACH-Registration Dossier

* Data compared to the previous

version altered. Amended according to Regulation (EU) no 2020/878

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