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SAFETY DATA SHEET

SDS: NH/2023

1. PRODUCT & IDENTIFICATION DETAILS

Titanium Dioxide CAS No: 13463-67-7 EC No: 236-675-5

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical</u>	<u>%</u>
Titanium Dioxide	>82%

3. HAZARD IDENTIFICATION

Titanium Dioxide according to Regulation (EC) No 1273/2008 is not classified as dangerous.

Human Health Effects:

Skin – skin is not penetrated but prolonged use can cause irritation.

Eyes – may cause eye irritation.

Inhalation – excessive exposure may cause temporary drying effect / or irritation of the mucous membranes.

Ingestion – No hazard under normal conditions of use.

4. FIRST AID

Eye Contact:	Flood with clean water for 15 minutes and seek medical advice if irritation persists.
Skin Contact:	Remove contaminated clothing. Wash the affected area with soap and water. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. If patient is conscious, give water to drink.
Inhalation:	Seek immediately a source of fresh air. If respiratory tracts are irritated, seek medical advice.

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5. FIRE FIGHTING PROCEDURES

Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc. Care should be taken to observe the local surrounding area.

6. ACCIDENTAL RELEASE MEASURES

Remove any dry material either by a vacuum cleaner fitted with an efficient filter, or by wet sweeping to avoid creating dust. Prevent entry to sewers and soil.

7. HANDLING & STORAGE

Prevent extensive contact with eyes, skin and clothing.

Wash hands / skin after use. Do not eat, drink or smoke when using this material and keep away from animal feeding stuffs.

Local exhaust ventilation is recommended to comply with occupational exposure limits (see Guidance Note EH40 – latest edition).

Store in secure containers in dry conditions, avoiding extremes of temperature and protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

WEL Long Term Exposure Limit (8-hour TWA ref period)

10mg/m³ (total inhalable)

4mg/m³ (respirable)

In conditions of spray mist or product dust, local exhaust ventilation should be provided to comply with occupational exposure limits (see Guidance Note EH40 – latest edition).

Hand / Skin Protection: Gloves (plastic or rubber, cotton lined).

Eye Protection: Goggles (BS2092, Grade 1 : CDM).

Respiratory Protection: If local exhaust ventilation is not adequate, HSE approved respiratory equipment must be provided.

9. PHYSICAL & CHEMICAL PROPERTIES

Form: Solid / Powder - White
Odour: Odourless

10. STABILITY & REACTIVITY

Stable over normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity Oral: LD50 rat >5,000mg/kg bw (OECD 425)

Dermal: LD50 rabbit >5,000mg/kg bw

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

Corrosivity/Irritation Respiratory Tract: Not irritating

Skin: Not irritating (OECD 404)

Eyes: Not irritating (OECD 405)

Sensitization

Not sensitizing (OECD 406, OECD 429)

Repeated dose

NOAEL: ORAL. 3,500mg/kg bw/day (chronic rat)

Toxicity

NOAEC: INHALATION. (Target organ – respiratory lung) 10mg/m³ (chronic rat)

Toxicity for reproduction Based on the weight of evidence from the available long-term toxicity/carcinogenicity studies in rodents and the relevant information on the toxicokinetic behaviour in rats it is concluded that Titanium dioxide does not present a reproductive toxicity hazard.

12. ECOLOGICAL INFORMATION

No specific data available.

13. DISPOSAL

Material should be disposed of to comply with local regulations.

14. TRANSPORTATION

Non hazardous for transportation – no special precautions required.

15. REGULATORY INFORMATION

Non hazardous.

16. OTHER INFORMATION

Good industrial hygiene practices are recommended when handling and using this product.

DISCLAIMER

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.