

SAFETY DATA SHEET

Supercedes date 28-Jan-2025 Revision date 28-Jan-2025 Revision Number 1

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

1.1. Product identifier

Product Name SALFORD SF-201, SALFORD SF-250, SALFORD SF-260, SALFORD SF-269,

SALFORD SF-280, SAFLORD SF-288, SALFORD SF-626

EC No (EU Index No) 236-675-5

CAS No 13463-67-67

Synonyms Titanium dioxide

Pure substance/mixture Mixture

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

Recommended use Pigment

Uses advised against For industrial use only

1.3. Details of the supplier of the safety data sheet

Supplier

P.O. Box 26, Grimsby, N.E. Lincs. UK DN41 8 DP tele: +44.1469.571000 fax: +44.1469.553015

1.4. Emergency telephone number

Emergency Telephone 24 Hour Emergency Phone Number

CHEMTREC (EMEA): +44 20 3885 0382 CHEMTREC (International): +1 703 527 3887

United Kingdom +44 20 3807 3798

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Not classified

2.2. Label elements

Not classified

Hazard statements

Not classified.

2.3. Other hazards

Other hazards None known.

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating or toxic

(PBT). This mixture contains no substance considered to be very persistent nor very

bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)		M-Factor (long-term)
Titanium dioxide 13463-67-7	>80%	236-675-5 (022-006- 00-2)	1-2119489379-17- XXXX	-	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

In the absence of LD50/LC50 data, the conversion value (converted acute toxicity point estimate) may be indicated here; please note that these values do not represent test results

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapour - mg/L	
Titanium dioxide 13463-67-7	10000	No data available	5.09	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice No hazards which require special first aid measures.

Inhalation Remove to fresh air. (Call a doctor if symptoms occur).

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Inhalation of dust in high concentration may cause irritation of respiratory system.

Effects of Exposure Irritants. See Section 11 for additional Toxicological Information.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Product itself does not burn. Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use extinguishing agent suitable for type

of surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

None known.

Hazardous combustion products

Non-combustible.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Protective equipment and precautions for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective

equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protection

equipment. Wash thoroughly after handling.

General hygiene considerations Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Take off contaminated clothing and wash it before reuse. Wash

hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

	Exposure Emilio				
	Chemical name	United Kingdom			
Titanium dioxide		TWA: 10 mg/m ³			
	13463-67-7	TWA: 4 mg/m ³			
		STEL: 30 mg/m ³			
		STEL: 12 mg/m ³			

Biological occupational exposure

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

No information available

Derived No Effect Level (DNEL) - General Public

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls

Engineering controls Showers

Eyewash stations Ventilation systems

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Appropriate eye/face protection should

be selected and used according to the chemical nature, hazards and use of this product

and safety requirements of the local jurisdiction.

Hand protection No special protective equipment required. Appropriate hand protection should be selected

and used according to the chemical nature, hazards and use of this product and safety

requirements of the local jurisdiction. Wash hands before breaks and after work.

Skin and body protection No special protective equipment required. Appropriate skin and body protection should be

selected and used according to the chemical nature, hazards and use of this product and

safety requirements of the local jurisdiction.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. None under normal use conditions. Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use

of this product and safety requirements of the local jurisdiction.

Recommended filter type: Respiratory protection with a particle filter.

Thermal hazards None under normal processing.

General hygiene considerations Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Take off contaminated clothing and wash it before reuse. Wash

hands before breaks and after work.

Environmental exposure controls Prevent product from entering drains. See Section 12 for additional Ecological Information.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance Powder
Colour white
Odour None.

Odour threshold Not applicable

Property Values Remarks • Method Melting point / freezing point 1830 °C Melting point / melting range

Boiling point / boiling range 2972 °C

Flammability (solid, gas) No data available Not flammable Flammability Limit in Air Not applicable

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available Not applicable

Autoignition temperature 375 °C Not applicable
Decomposition temperature Not applicable

pH 6-10 10g/100ml aqueous solution

pH (as aqueous solution)

No data available

None known

No data available

Not applicable

Dynamic viscosity

No data available

Not applicable

Water solubility Insoluble in water -

Solubility(ies) Insoluble in common solvents

Partition coefficient

No data available

Vapour pressure

No data available

No data available

Not applicable

Relative density

4 0-4 2

(water = 1)

Relative density 4.0-4.2 (water = 1)

Bulk density No information available

Liquid Density

No data available

Vapour density

No data available

Vapour density

No data available

Not applicable

Method: Median equivalent diameter as measured by Laser Diffraction (this value is independent of

Particle Size 0.5 μm μm
Particle Size Distribution 0.3 - 0.7 μm

Explosive properties Not an explosive Oxidising properties None known

9.2. Other information

VOC content None

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Incompatible materials None known.

10.6. Hazardous decomposition products

Hazardous decomposition products None known.

SECTION 11: Toxicological information

11.1. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact Inert foreign body hazard only.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Inhalation of dust in high concentration may cause irritation of respiratory system.

Acute toxicity

Numerical measures of toxicity

Based on available data, the classification criteria are not met

Component Information

Developmental toxicity

ı	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
	Titanium dioxide	> 5000 mg/kg (Rat)	-	> 6,82 mg/L (Rat) 4 h

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

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

Skin corrosion/irritation

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

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Teratogenicity None known.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

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

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Not considered to be harmful to aquatic life.

ı	Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
ı				microorganisms	
	Titanium dioxide	ErC50: >100 mg/l (72h,	LC50: >1000 mg/l (96h,	-	-
ı		Pseudokirchneriella	Pimephales promelas)		
ı		subcapitata			

12.2. Persistence and degradability

Persistence and degradability Titanium Dioxide, is an inorganic metal oxide, therefore this does not apply.

12.3. Bioaccumulative potential

Bioaccumulation None known.

12.4. Mobility in soil

Mobility in soil Not mobile.

Mobility Not mobile.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating or toxic

(PBT). This mixture contains no substance considered to be very persistent nor very

bioaccumulating (vPvB).

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

SECTION 14: Transport information

IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users Special Provisions None

IMDG

14.1 UN number or ID number Not regulated 14.2 EPNM Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users Special Provisions None

14.7 Maritime transport in bulk No information available according to IMO instruments

RID_

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions

ADR

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable 14.6 Special Precautions for Users

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH (SI 2015/483 as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons and Explosive Precursors

Not applicable

International Inventories

TSCA Complies DSL/NDSL Complies EINECS/ELINCS Complies **ENCS** Complies Complies IECSC Complies KECL Complies PICCS AIIC Complies NZIoC Complies TCSI Complies

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

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorisation: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value Maximum limit value Sk* Skin designation

Sensitisers

Classification procedure

Expert judgment and weight of evidence determination

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared By Product Stewardship

Issuing Date 28-Jan-2025

Supercedes date 28-Jan-2025

Revision date 28-Jan-2025

Reason for revision Not applicable

Restrictions on use This product is not intended for consumption, cosmetic, pharmaceutical or medical end use.

Tronox will not knowingly sell product for use into these applications.

Training Advice This document contains important information to ensure the safe storage, handling and use

of this product. It is the responsibility of your organization to ensure that the information contained within this document is communicated to the end user and that all necessary

training to enable the product to be used correctly has been given.

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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