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MATERIAL SAFETY DATA SHEET (MSDS)

TITANIUM DIOXIDE AR

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : TITANIUM DIOXIDE AR

Product code : T0207700500

Identification of the product : CI 77891
 CAS No: 13463-67-7
 EC No :236-675-5

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Category 2 - Warning (CLP : STOT SE 2) H371
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

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2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: Xn : Harmful

R Phrase(s)

: R68 : Possible risks of irreversible effects.

S Phrase(s)

: S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36 : Wear suitable protective clothing.

Contains

: CI 77891

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Warning

Hazard statements

: H319 : Causes serious eye irritation.
 H371 : May cause damage to organs.

Precautionary statements

• Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

• Response

: P309+P311: IF exposed or if you feel unwell : Call a POISON CENTER or doctor.
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

• Storage

: P405: Store locked up.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains

: CI 77891

2.3. Other hazards

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation

: CI 77891

EC No :236-675-5
 Substance.

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3. Composition/information on ingredients (continued)

| Substance name | Contents | CAS No | EC No | Annex No | REACH Ref. | Classification |
|----------------|----------|------------|-----------|----------|------------|-----------------------------------|
| CI 77891 | 100 % | 13463-67-7 | 236-675-5 | ---- | ---- | R68 Xn; 68 STOT SE 2 _ H371 |

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

| | |
|--------------|---|
| Inhalation | : Remove to fresh air and keep at rest in a position comfortable for breathing. |
| Skin contact | : Wash with plenty of soap and water. |
| Eye contact | : If eye irritation persists : Get medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. |
| Ingestion | : Do NOT induce vomiting. Rinse mouth. |

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

| | |
|--------------------------|---|
| Symptoms relating to use | : Causes serious eye irritation. May cause damage to organs. |
|--------------------------|---|

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

| | |
|---------------------|---|
| General information | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
|---------------------|---|

5. Fire-fighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| Surrounding fires | : Use water spray or fog for cooling exposed containers. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------------------------|---|
| Hazardous combustion products | : Under fire conditions, hazardous fumes will be present. |
|-------------------------------|---|

5.3. Advice for fire-fighters

| | |
|-------------------------|--|
| Protection against fire | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Special procedures | : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |

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6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection.
Ventilate area.
Avoid breathing dust, fume, gas, mist, vapours, spray.
- For non-emergency personnel** : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

- Personal protection** : Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.
- Handling** : Wash thoroughly after handling.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

- Specific end use(s)** : None.

8. Exposure controls/personal protection
8.1. Exposure controls

MATERIAL SAFETY DATA SHEET (MSDS)
TITANIUM DIOXIDE AR
8. Exposure controls/personal protection (continued)

| | |
|---------------------------------|--|
| Personal protection | : Avoid all unnecessary exposure. |
| • Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. |
| • Hand protection | : Wear protective gloves. |
| • Eye protection | : Chemical goggles or safety glasses. |
| • Others | : When using, do not eat, drink or smoke. |

8.2. Control parameters

| | |
|-------------------------------------|----------------------|
| Occupational Exposure Limits | : No data available. |
|-------------------------------------|----------------------|

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|---|----------------------|
| Physical state at 20 °C | : Solid. |
| Colour | : White powder |
| Odour | : Odorless |
| Odour threshold | : No data available. |
| pH value | : No data available. |
| Melting point [°C] | : 1825 °C |
| Decomposition point [°C] | : N/A |
| Critical temperature [°C] | : N/A |
| Auto-ignition temperature [°C] | : N/A |
| Flammability (solid, gas) | : N/A |
| Flash point [°C] | : N/A |
| Boiling point [°C] | : 2750°C |
| Initial boiling point [°C] | : N/A |
| Final boiling point [°C] | : N/A |
| Evaporation rate | : N/A |
| Vapour pressure [20°C] | : N/A |
| Vapour pressure mm/Hg | : N/A |
| Vapour density | : N/A |
| Density [g/cm³] | : 3,9 |
| Relative density, gas (air=1) | : N/A |
| Relative density, liquid (water=1) | : N/A |
| Solubility in water [% weight] | : Insoluble in water |
| Solubility in water | : N/A |
| Log Pow octanol / water at 20°C | : No data available. |

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9. Physical and chemical properties (continued)

Solubility : N/A
 Viscosity at 40°C [mm²/s] : N/A

9.2. Other information

Explosive properties : N/A
 Explosion limits - upper [%] : N/A
 Explosion limits - lower [%] : N/A
 Oxidising properties : No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.

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TITANIUM DIOXIDE AR
11. Toxicological information (continued)

| | |
|------------------------|---|
| • Ingestion | : Based on available data, the classification criteria are not met. |
| Corrosion | : Based on available data, the classification criteria are not met. |
| Irritation | : Causes serious eye irritation. |
| Sensitization | : Based on available data, the classification criteria are not met. |
| Mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |
| Toxic for reproduction | : Based on available data, the classification criteria are not met. |
| STOT-single exposure | : Causes damage to organ. |
| 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. |

12. Ecological information
12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

MATERIAL SAFETY DATA SHEET (MSDS)
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13. Disposal considerations (continued)

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information
14.1. Land transport (ADR-RID)

General information : Not regulated.

14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
 vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3) : R68 : Possible risks of irreversible effects.

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TITANIUM DIOXIDE AR

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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