Joma TITAN C-63
Basic nano TiO_2 dispersion

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

1.1 Product identifier: Titanium (IV) oxide, anatase
Trade name: Joma TITAN C-63

1.2 Relevant identified uses of the substance or mixture and uses advised against
General use: Photocatalytic coatings or formulations

1.3 Details of the supplier of the safety data sheet
Company name: Joma International AS
Street/post address: Heiane 2b, 5131 Nyborg, Norway
Telephone:
Norway +47 41 64 73 93

1.4 Emergency telephone numbers:

Norway (Giftinformasjonssentralen) +47 22 15 13 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP): none

2.2 Label elements
Labelling (CLP): not required

Signal word: none
Hazard statements: none

Safety precautions:

P305+P351+P338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	If exposed or if you feel unwell: Call a POISON CENTER or doctor

2.3 Other hazards

Not Classified as PBT/vPvB by current EU criteria

SECTION 3: Composition/ information on ingredients

3.2 Mixtures

Chemical characterization (preparation)

Aqueous dispersion

Main ingredients and ingredients contributing to hazard:

Ingredient	Chemical name	Content	Classification
CAS 13463-67-7	Titanium dioxide	3-8%	Not classified
CAS 2002-24-6	Ethanolamine hydrochloride	<2%	H315+H319+H335

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation:

Move victim to fresh air. In case of respiratory difficulties seek medical attention.

In case of skin contact:

After contact with skin, wash immediately with plenty of water. Change contaminated clothing. In case of skin reactions, consult a physician.

After eye contact:

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids.If possible remove any contact lenses and continue to wash. Get medical attention if any discomfort continues.

After swallowing:

Do not induce vomiting. Rinse mouth with water. In case of ingestion of large amounts or if any discomfort continues obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Facilities to wash skin and eyes in case of exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

No data available

Unusual Fire & Explosion Hazards:

None associated with product. Containers are likely to melt in a fire.

Specific hazards:

In case of fire, toxic or irritating fumes or vapours may be formed

5.3 Advice for firefighters

In case of surrounding fires: wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust or vapours. Use protective clothing and equipment as described in Section 8.

6.2 Environmental precautions

Although not classified as environmentally hazardous, the mixture contains base, salts and organics which can have an effect on local water quality. Avoid unauthorised discharge to the environment.

6.3 Methods and material for containment and cleaning up

Small spillages: Absorb with inert, non-combustible material.
Large spillages: Dam and absorb spillage with sand, earth or other inert, non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash spillage site well with water and detergent. Ventilate area and allow to dry before allowing access

6.4 Reference to other sections

See sections 8 and 13 for additional information

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Provide adequate ventilation and local exhaust as needed. Keep container closed when possible. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities:

Storage requirements:
Store in closed original containers. Store in cool (15-25^{o}C), ventilated area.

Incompatibilities:
Strong acids

D.G. Storage class:
No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No data available for the mixture.

8.2 Exposure controls

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded.

Respiratory equipment
Wear suitable respiratory protection when vapours or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. If the product is being sprayed, wear a mask with filter-standards A and P3. When vapours are generated during spill clean up operations and exposure of operators is likely then respiratory equipment should be worn.

Hand protection
Handle with gloves in accordance with good laboratory practice.

Eye protection
Wear approved chemical safety goggles conforming to EN 166.

Other Protection
No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value	Comment
pH	9.0 +/- 0.5	According to spec
Melting point/freezing point	Not determined	
Initial boiling point/boiling range	Not determined	Near that of water
Flashpoint	Not determined	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	Non combustible
Upper explosive limits	Not determined	Non combustible
Lower explosive limits	Not determined	Non combustible
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1.15 +/- 0.1 g/ml	
Solubility in water	Miscible	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	Non combustible
Decomposition temperature	Not determined	Does not decompose
Viscosity, dynamic	<100 cP	May increase during long storage
Viscosity, cinematic	Not determined	
Explosive properties	Not determined	Non combustible
Oxidising properties	Not determined	Weak base

SECTION 10: Stability and reactivity

10.1 Reactivity

Can react with acids.

10.2 Chemical stability

Stable when stored in sealed container at normal temperatures in a suitable location.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid direct sunlight and moisture. Avoid heat and freezing conditions. Avoid storage with oxidising agents. Avoid storage with incompatible materials. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Avoid storage in an unstable manner or in a situation that would result in exposure to the product. Do not allow the storage container to be left exposed to the atmosphere

10.5 Incompatible materials

Strong acids and oxidizing agents.

SECTION 11: Toxological information

11.1 Information on toxological effects

Note: The mixture has not been tested for toxicological properties. Information below is literature information for generic TiO_2 particles.

Acute toxicity:
Acute Toxicity (Oral LD50): rat –female - >5.000 mg/kg.
Acute Toxicity (Inhalation LC50): rat –male – 4h - >6.82mg/l
Skin Corrosion/Irritation:
Rabbit - OECD Guideline 404 - no skin irritation
Serious eye damage/irritation:
Tests on rabbits, OECD Guideline 405 – no eye irritation
Respiratory sensitisation
No information available.
Skin sensitisation
No information available.

Germ cell mutagenicity:
No information available.
Carcinogenicity:
Not a carcinogen.
Reproductive Toxicity:
No information available.
Specific target organ toxicity - single exposure:
No information available.
Specific target organ toxicity - repeated exposure:
No information available.
General information
No information available.
Inhalation
In high concentrations, dust may irritate throat and respiratory system and cause coughing.
Ingestion
No information available.
Skin contact
No information available.
Eye contact
No information available.
Medical Symptoms
No information available.

SECTION 12: Ecological information

12.1 Toxicity

Note: The mixture has not been tested for ecotoxicological properties.

12.2 Persistence and degradability

Not relevant for inorganic components. Nanoparticles will aggregate into non-nano aggregates.

12.3 Bioaccumulative potential

TiO2 does not accumulate in organisms. No data available for other components

12.4 Mobility in soil

The TiO2 particles are immobile in soil. No data available for other components.

12.5 PBT and vPvB assessment

Does not contain any PBT or vPvB substances

SECTION 13: Disposal considerations

13.1 The product may cause eye irritation unless neutralized or diluted. Dispose as chemical.

SECTION 14: Transport considerations

14.1 Not applicable. Not a dangerous good.

SECTION 15: Regulatory information

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

The product is not listed as SVHC and does not contain any substances of very high concern.

SECTION 16: Other information

16.1 General information

This datasheet is not intended to be a replacement for a full risk assessment, these should always be carried out by competent persons. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.