

SAFETY DATA SHEET

According to Regulation (EC) No. 1272/2008

Exocoat™ AM (Development Product)**1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY / UNDERTAKING****Product label name**

Exocoat AM

Supplier

Axcentive SARL

Chemin de Champouse

Quartier Violesi

13320 Bouc Bel Air, France

Tel : +33 442 694 090

Email address of person responsible for safety data sheet

info@axcentive.com

Emergency telephone

+44-203 514 7487

3E Company – UK

Relevant identified uses of the substance or mixture

Catalytic aid. Nanosol coating aid. For industrial use only.

Date of issue / Revision number

2021-06-03 / 0.01

2. HAZARD IDENTIFICATION**Classification of the substance or mixture Classification (1272/2008/EC)**

Not classified

GHS label

Not required

Other hazards

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is to be considered as a mixture in conformance to EC directives

Chemical description

Mixture of substances

Composition / information on ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Titanium dioxide nano form	236-675-5	13463-67-7	0.75-0.95	Not classified	Not required

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4. FIRST AID MEASURES

Most important symptoms and effects

General

Remove soiled or soaked clothing immediately

If someone exposed to the product feels unwell, get medical attention immediately if symptoms occur.

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.

Skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

Eye

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Get medical attention immediately if symptoms occur.

Ingestion

DO NOT induce vomiting.

Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.

Indication of any immediate medical attention and special treatment needed

None in particular.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Non-combustible. Use a fire-fighting agent suitable for surrounding fire.

Unsuitable extinguishing media

None in particular.

Hazardous decomposition/combustion products

Only in case of extreme heat: a violent reaction may occur with metals.

Protective equipment

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing. Evacuate unprotected and untrained personnel from hazard area.

Environmental precautions

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Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep up and shovel into suitable containers for disposal. Flush away traces with water. Dispose of absorbed material in accordance with the regulations.

Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product.

Fire and explosion prevention

Keep away from sources of ignition – No smoking.

Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place, away from light. Protect from moisture and Acids.

Exposure Scenario

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Local Ventilation: Recommended.

General Ventilation: Recommended.

Personal protection

Respiratory

Suitable respiratory equipment if ventilation is not adequate or if thermal degradation is expected.

Hand

Protective gloves Type C: Nitrile rubber, Butyl rubber. Break through time: > 10 min ; Thickness > 0.5 mm.

Eye

Tightly fitting safety goggles.

Skin and body

Protective overalls

Other information

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

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Exocoat™ AM (Development Product)**Environmental Exposure Controls**

The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Yellowish transparent liquid.

Odour

None

Colour

Yellowish.

Boiling point/range

100°C (101 kPa)

Flash point

None

Flammability

Not flammable

Explosive properties

No data available

Oxidizing properties

No data available

Vapour pressure

No data available

Relative density

≈ 1 (20 °C)

Viscosity

No data available

Bulk density

Not applicable

Solubility in water

Soluble

Solubility in other solvents

Miscible in oil

pH value

8-10

Partition coefficient n-octanol/water

No data available

Relative vapour density (air=1)

No data available

Evaporation rate

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No data available

Viscosity

No data available

Auto-ignition temperature

No data available

Upper/lower flammability or Explosion limits

Not relevant

Other information

Titanium dioxide nano solid form: Specific surface area 160 ±30 m²/g

Titanium dioxide nano solid form: Solubility in water < 0.34 µg/l

Dissolution rate not relevant for the liquid mixture

Dispersion stability not relevant for the liquid mixture

10. STABILITY AND REACTIVITY

Conditions to avoid

None in particular.

Stability

The product is considered to be non-reactive under normal use conditions.

Incompatible materials

Strong bases and alkali metals and acids.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Avoid temperatures above 200 °C.

Decomposition

Decomposition is not expected.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	>2,000 mg/kg bw (Rat)	Non-toxic	Non-toxic

Irritation

Skin

No known effect.

Eye

No known effect.

Mechanical irritation may occur in solid form.

Sensitization

No known effect.

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Germ cell mutagenicity

No component known to cause heritable genetic damage.

Reproductive toxicity

Not known to adversely affect reproductive functions and organs.

Carcinogenicity

Contains no ingredient listed as a carcinogen

12. ECOLOGICAL INFORMATION

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Titanium dioxide	>100 mg/l	>1,000 mg/l	>1,000 mg/l	>1,000 mg/l

Persistence and degradability

No expected toxicity.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No component known to be PBT or vPvB.

13. DISPOSAL CONSIDERATIONS

Product

According to local regulations (most probably controlled incineration). Prevent material from entering sewers and waterways. Prevent release into the environment.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

According to: ADR, RID, IMDG, IATA

UN number

Not regulated

UN proper shipping name

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Transport hazard class

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Packing group

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Marine pollutant

No

Environmental hazards

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15. REGULATORY INFORMATION

Product label name

Exocoat AM DP

Restrictions on use

None known

Other regulations

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Chemical safety assessment

No information available

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008

Disclaimer

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

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This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.