

SAFETY DATA SHEET (EC 1907/2006)

AERODISP® W 740 X

Material no.	Version	2.16 / REG_EU
Specification	Revision date	24.01.2012
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	AERODISP® W 740 X
Company	Evonik Industries AG Inorganic Materials Produktsicherheit IM-PT-PS Postfach 1345 D-63403 Hanau
Telephone	+49 (0)6181 59-4787
Telefax	+49 (0)6181 59-4205
Email address	sds-im@evonik.com
Emergency telephone number	+49 (0)7623-919191

Use of the Substance / Preparation catalyst
Ceramics

REACH Registration No.: if available listed in Chapter. 3

2. HAZARDS IDENTIFICATION

Other Hazards

On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• Titanium dioxide			
CAS-No.	13463-67-7	EC-No.	236-675-5
• Water			
CAS-No.	7732-18-5	EC-No.	231-791-2

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

Inhalation

If aerosol or mists are formed:
Move victims into fresh air.

Skin contact

Wash off with plenty of water and soap.

Eye contact

Rinse thoroughly with plenty of water keeping eyelid open.
In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Have the mouth rinsed with water.
After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

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Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

No hazards which require special first aid measures.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

All extinguishing substances suitable.

Special hazards arising from the substance or mixture

None known

Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

Methods and material for containment and cleaning up

Pick up mechanically with an adsorbent and collect in a suitable container.

Rinse with water in suitable containers.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Stir well before use.

Always close container tightly after removal of product.

Advice on protection against fire and explosion

No special precautions required.

Storage

Conditions for safe storage, including any incompatibilities

Avoid heat effect and frost.

Storage stability

Product Information

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Personal protective equipment

Respiratory protection

If respirable aerosols / vapour occurs:

Respirator with P2 particle filter

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Hand protection

Wear protective gloves made from a tough material.

Glove material nitrile rubber

Material thickness 0.35 mm

Break through time ≥ 480 min

Glove material Natural rubber (NR)

Material thickness 0.5 mm

Break through time ≥ 480 min

Glove material PVC

Material thickness 0.5 mm

Break through time ≥ 480 min

Remember that the useful time per day of a chemical protection glove may be much shorter than the permeation time determined according to EN 374 due to the many different influential factors involved (e.g. temperature).

The rupture time and material thickness data are guideline values! Exact rupture time / material thickness data can be obtained from the protective glove manufacturer.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

Eye protection

goggles

Skin and body protection

No special protective equipment required.

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practices.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	white
Odour	odourless

Information on basic physical and chemical properties

pH	ca. 6	(20 °C)
Melting point/range	ca. 1850 °C	
	related to substance:	Titanium dioxide
Flammability (solid, gas)	not applicable	
Ignition temperature	not applicable	
Autoinflammability	not applicable	
Thermal decomposition	Stable under normal conditions.	
Lower explosion limit	not applicable	
Upper explosion limit	not applicable	
Vapour pressure	23.5 hPa	

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related to substance: water

Density 1.41 g/ml

Water solubility miscible

Viscosity, dynamic < 1000 mPa.s

10. STABILITY AND REACTIVITY

Hazardous decomposition products None known

11. TOXICOLOGICAL INFORMATION

No results of animal experiments with this preparation are available.

Acute oral toxicity LD50 Rat: > 10000 mg/kg
Method: literature
(limit test)
related to substance: Titanium dioxide

Acute dermal toxicity LD50 Rabbit: >= 10000 mg/kg
Method: literature
related to substance: Titanium dioxide

Skin irritation Rabbit / literature
not irritating
related to substance: Titanium dioxide

Eye irritation Rabbit / literature
not irritating
related to substance: Titanium dioxide

Sensitization Optimizations-test guinea pig: not sensitizing
Method: literature
related to substance: Titanium dioxide

Patch test : not sensitizing
Method: literature
related to substance: Titanium dioxide

Gentotoxicity in vitro Microorganisms, cell cultures
Shown no mutagenic/genotoxic effect.
literature
related to substance: Titanium dioxide

Gentotoxicity in vivo Microorganisms, cell cultures
Shown no mutagenic/genotoxic effect.
literature
related to substance: Titanium dioxide

Carcinogenicity Oral rat, mouse: 103 weeks
no evidence that cancer may be caused, literature.
Feeding experiments
related to substance: Titanium dioxide

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inhalative Rat: 2 years

Method: literature

Increased incidence of lung tumors.

The scientific discussion of the tumorigenic effect of sparingly soluble inorganic particles (fine dusts)- such as titanium dioxide - is ongoing. It is the opinion of many inhalation toxicologists that the tumor formation observed in rats results from a species-specific mechanism involving overloading of the rat lung (overload phenomenon). Corresponding findings resulting from exposure of humans have not been observed to date. On the other hand, the International Agency for Research on Cancer (IARC) assessed, in February of 2006, the available rat model studies as constituting sufficient proof of the carcinogenicity of titanium dioxide in animal models. For humans, the IARC does not see sufficient evidence of a carcinogenic effect of titanium dioxide. However, the IARC evaluation scheme results in an overall assessment of titanium dioxide as "possibly carcinogenic to humans" (Group 2B).

related to substance: Titanium dioxide

inhalative (mouse): 2 years

no evidence that cancer may be caused, literature.

related to substance: Titanium dioxide

Human experience

Epidemiological studies to date have not revealed any evidence of a relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ecotoxicological tests with this preparation are not available.

Toxicity to fish

LC50 Fundulus heteroclitus: > 1000 mg/l / 96 h

Method: literature

related to substance: Titanium dioxide

Toxicity to daphnia

EC0 Daphnia magna: 1000 mg/l / 48 h

Method: literature

related to substance: Titanium dioxide

Toxicity to bacteria

EC0 Pseudomonas fluorescens: 10000 mg/l / 24 h

Method: DEV, DIN 38412, T. 8 (modified).

related to substance: Titanium dioxide

13. DISPOSAL CONSIDERATIONS

Product

Disposal according to local authority regulations.

Uncleaned packaging

Offer rinsed packaging material to local recycling facilities.

Other countries: observe the national regulations.

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Waste Key Number

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

14. TRANSPORT INFORMATION

Transport/further information

Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Other data	On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.
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National legislation

16. OTHER INFORMATION

Risk phrase (R phrase) texts

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration Factor
BetrSichV	German Ordinance on Industrial Safety and Health
c. c.	closed cup (geschlossenes Gefäß)
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	Carcinogenic-Mutagenic-toxic for Reproduction
DIN	German Institute for Standardization
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice.
GMO	Genetic Modified Organism
IATA DGR	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organisation - Technical Instructions
IMDG Code	International Maritime Dangerous Goods Code
ISO	International Organization For Standardization
LOAEL	Lowest Observed Adverse Effect Level
LOEL	Lowest Observed Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
o. c.	open cup (offenes Gefäß)
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Effect Concentration
PNEC	Predicted No Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TA	Technical Instructions (German Ordinance)
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances (German Regulations)
VCI	German "Verband der Chemischen Industrie e. V."
vPvB	Very Persistent, Very Bioaccumulative
VOC	Volatile Organic Compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	German Water Hazard Class
WHO	World Health Organization

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