

TITANIUM

Safety Data Sheet — English translation of the Italian original · Manufacturer: Colorificio ATRIA S.r.l., Partanna (TP), Italy · Revision n.3 of 06/12/2019 (printed 11/06/2020; supersedes revision 2 of 17/05/2019) · Product code: 08.WRS.9010Duplex2 (FLO14) · Compliant with Annex II of REACH — Regulation 2015/830

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

1.1. Product identifier

Code	08.WRS.9010Duplex2
Name	Titanium
Chemical name and synonyms	single-component water-based acrylic resins

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

Description/Use	Coarse-grain water-based decorative coating.
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1.3. Details of the supplier of the safety data sheet

Company name	COLORIFICIO ATRIA S.R.L.
Address	Contrada Camarro Formeca
Town and Country	91028 PARTANNA (TP), ITALY tel. +39 0924 49500 fax +39 0924 921250
e-mail of the competent person responsible for the safety data sheet	amario@atria.it
Party responsible for placing on the market	Colorificio Atria Srl
US distributor	ATRIA USA / Euro Star Enterprises LLC, 17811 Davenport Road Suite 12, Dallas TX 75252, USA · sales@atria-usa.com · +1 972-965-5881

1.4. Emergency telephone number

For urgent inquiries contact	Colorificio Atria Srl - Technical Office +39 0924 49500, hours 08.00–13.00 / 14.30–17.00, excluding holidays Poison Control Centre (CAV) "Osp. Pediatrico Bambino Gesù", Rome — Piazza Sant'Onofrio, 4 — Phone 06 68593726 Az. Osp. Univ. Foggia, Foggia — V.le Luigi Pinto, 1 — Phone 0881-732326 Az. Osp. "A. Cardarelli", Naples — Via A. Cardarelli, 9 — Phone 081-7472870 CAV Policlinico "Umberto I", Rome — V.le del Policlinico, 155 — Phone 06-49978000 CAV Policlinico "A. Gemelli", Rome — Largo Agostino Gemelli, 8 — Phone 06-3054343 Az. Osp. "Careggi" U.O. Medical Toxicology, Florence — Largo Brambilla, 3 — Phone 055-7947819 CAV National Toxicological Information Centre, Pavia — Via Salvatore Maugeri, 10 — Phone 0382-24444 Osp. Niguarda Ca' Granda, Milan — Piazza Ospedale Maggiore, 3 — Phone 02-66101029 Azienda Ospedaliera Papa Giovanni XXIII, Bergamo — Piazza OMS, 1 — Phone 800883300
US contact (distributor-provided)	ATRIA USA 972-965-5881 (business hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section 3, it requires a safety data sheet with adequate information, in compliance with Regulation (EU) 2015/830.

Classification and hazard statements: —

2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adaptations.

Hazard pictograms	--
Signal word	--

Hazard statements:

EUH210	Safety data sheet available on request.
EUH208	Contains: tetrahydro-1,3,4,6-tetrakis-imidazoldione ("tetraidro-1,3,4,6-tetrachisimidiazoldione" in the original), 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

Precautionary statements:

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2.3. Other hazards

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
1-METHYL-2-METHOXYETHYL ACETATE (2-methoxy-1-methylethyl acetate) CAS 108-65-6 EC 203-603-9 INDEX 607-195-00-7 Reg. No. 01-2119475791-29	$1 \leq x < 1.5$	Flam. Liq. 3 H226

The full text of hazard statements (H) is given in section 16 of this sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures

Ingestion: In case of ingestion, seek medical advice immediately and show the doctor the container or label. Keep the person warm and at rest. Do not induce vomiting unless directed by medical personnel. Tilt the head so that any vomit does not return to the mouth and throat.

Protection of first aiders: No action shall be taken involving any personal risk or without suitable training. If fumes are still

suspected to be present, wear a mask or respirator. Performing mouth-to-mouth resuscitation may be dangerous for the person providing aid. Remove contaminated clothing after washing it thoroughly with water, or using gloves.

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

No specific information is known on symptoms and effects caused by the product.

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

Information not available

SECTION 5: Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinguishing media are the conventional ones: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

Do not use full water jets.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE: Any fires give off thick black smoke. Exposure to decomposition products may be a health hazard. Avoid breathing combustion products. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

5.3. Advice for firefighters

GENERAL INFORMATION

Cool the containers with water jets to prevent decomposition of the product and the development of substances potentially hazardous to health. Always wear complete fire-prevention protective equipment. Collect extinguishing water, which must not be discharged into sewers. Dispose of contaminated water used for extinguishing and fire residue in accordance with the regulations in force.

EQUIPMENT

Normal firefighting clothing, such as an open-circuit compressed-air self-contained breathing apparatus (EN 137), flame-retardant suit (EN 469), flame-retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapours or dusts dispersed in the air, adopt respiratory protection. These indications apply both to process workers and to emergency response personnel.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater.

6.3. Methods and material for containment and cleaning up

Contain with earth or inert material. Collect most of the material and remove the residue with water jets. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information concerning personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Avoid inhalation of vapours, sprays and mists.

Eating, drinking and smoking are prohibited in areas where the material is handled, stored or processed.

Wear suitable protective equipment (see Section 8).

Never empty the product by subjecting it to pressure. The container is not pressurised.

Always keep the material in the original container.

Comply with the provisions of the laws on health and safety in the workplace.

Do not release the product into the sewer system or watercourses.

When workers, for spraying or other operations, must work inside the spray booth, the extraction conditions are likely to be insufficient to keep particulate matter and solvent vapours under control in all cases. In such circumstances they must wear powered air-fed respiratory systems during spraying operations, and for as long as it takes for the concentrations of particulate matter and solvent vapours to fall below the exposure limits.

7.2. Conditions for safe storage, including any incompatibilities

Store in compliance with the regulations in force.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Keep in a dry, cool and well-ventilated environment. Keep the container tightly closed.

No smoking. No access for unauthorised persons. Opened containers must be carefully resealed and kept upright to prevent accidental spillage of the product.

7.3. Specific end use(s)

Information not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
ITA	Italy	COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

1-METHYL-2-METHOXYETHYL ACETATE

Threshold limit value

Type	Country	TWA/8h		STEL/15min		Notes
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	274	50	548	100	SKIN
VLEP	ITA	275	50	550	100	SKIN
OEL	EU	275	50	550	100	SKIN

ETHYLENE GLYCOL

Threshold limit value

Type	Country	TWA/8h		STEL/15min		Notes
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	52	20	104	40	SKIN
VLEP	ITA	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH				10		INHAL
TLV-ACGIH			25		50	

Legend:

(C) = CEILING ; INHAL = Inhalable fraction ; RESPIR = Respirable fraction ; THORAC = Thoracic fraction.

8.2. Exposure controls

Since the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation of the workplace by means of effective local exhaust extraction.

For the choice of personal protective equipment, seek advice from your chemical suppliers if necessary.

Personal protective equipment must bear the CE marking attesting its conformity to the regulations in force.

HAND PROTECTION

Protect hands with category III work gloves (ref. standard EN 374).

For the final choice of work-glove material, consider: compatibility, degradation, breakthrough time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be verified before use, as it is not predictable. Gloves have a wear time that depends on the duration and mode of use.

SKIN PROTECTION

Wear long-sleeved work clothing and category I professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is recommended to wear hermetically sealed protective goggles (ref. standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance, or of one or more of the substances present in the product, is exceeded, it is recommended to wear a mask with a type A filter, the class of which (1, 2 or 3) must be chosen in relation to the limit concentration of use (ref. standard EN 14387). In the presence of gases or vapours of different kinds and/or gases or vapours with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures adopted are not sufficient to limit worker exposure to the threshold values taken into consideration. The protection offered by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relevant TLV-TWA, and in case of emergency, wear an open-circuit compressed-air self-contained breathing apparatus (ref. standard EN 137) or an external air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protective device, refer to standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	viscous liquid
Colour	white
Odour	odourless
Odour threshold	Not available
pH	Not available
Melting point or freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 65 °C
Evaporation rate	Not available
Flammability of solids and gases	Not available
Lower flammability limit	Not available
Upper flammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	160 Sec. f4
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Total solids (250°C / 482°F)	2.57 %
VOC (Directive 2010/75/EC)	1.25 %
VOC (volatile carbon)	0.64 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific experimental data on reactivity are available for this product or its ingredients.

1-METHYL-2-METHOXYETHYL ACETATE

Stable under normal conditions of use and storage.

With air it may slowly form peroxides which explode with increasing temperature.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, no hazardous reactions are foreseeable.

1-METHYL-2-METHOXYETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkali metals.

10.4. Conditions to avoid

None in particular. However, observe the usual precautions applicable to chemical products.

10.5. Incompatible materials

To avoid strong exothermic reactions, keep away from the following materials: oxidising agents, strong alkalis, strong acids.

1-METHYL-2-METHOXYETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkali metals.

10.6. Hazardous decomposition products

Under normal storage and use conditions, hazardous decomposition products should not be generated.

SECTION 11: Toxicological information

In the absence of experimental toxicological data on the product itself, the possible health hazards of the product have been assessed on the basis of the properties of the substances contained, according to the criteria laid down by the reference regulation for classification.

Therefore, consider the concentration of the individual hazardous substances possibly listed in section 3 when evaluating the toxicological effects deriving from exposure to the product.

11.1. Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information

1-METHYL-2-METHOXYETHYL ACETATE

The main route of entry is dermal, while the respiratory route is less significant given the low vapour pressure of the product.

Information on likely routes of exposure

1-METHYL-2-METHOXYETHYL ACETATE

WORKERS: inhalation; skin contact.

Immediate, delayed and chronic effects from short- and long-term exposure

1-METHYL-2-METHOXYETHYL ACETATE

Above 100 ppm, irritation of the ocular, nasal and oropharyngeal mucous membranes occurs. At 1000 ppm, balance disturbances and severe eye irritation are noted. Clinical and biological examinations performed on exposed volunteers

revealed no abnormalities. The acetate produces greater skin and eye irritation on direct contact. No chronic effects on humans are reported (INCR, 2010).

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:	Not classified (no relevant component)
LD50 (Oral) of the mixture:	Not classified (no relevant component)
LD50 (Dermal) of the mixture:	Not classified (no relevant component)

1-METHYL-2-METHOXYETHYL ACETATE

LD50 (Oral)	8530 mg/kg Rat
LD50 (Dermal)	> 5000 mg/kg Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May cause an allergic reaction. Contains: tetrahydro-1,3,4,6-tetrakis-imidazoldione ("tetraidro-1,3,4,6-tetrachisimidiazoldione" in the original)

2,4,7,9-tetramethyldec-5-yne-4,7-diol

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) — SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) — REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class. Viscosity: 160 Sec. f4

SECTION 12: Ecological information

Use according to good working practices, avoiding release of the product into the environment. Notify the competent authorities if the product has reached watercourses or has contaminated soil or vegetation.

12.1. Toxicity

Information not available

12.2. Persistence and degradability

1-METHYL-2-METHOXYETHYL ACETATE

Solubility in water	> 10000 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

1-METHYL-2-METHOXYETHYL ACETATE

Partition coefficient: n-octanol/water	1.2
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12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6. Other adverse effects

Information not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues as such are to be considered special non-hazardous waste.

Disposal must be entrusted to a company authorised for waste management, in compliance with national and, where applicable, local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14: Transport information

The product is not to be considered dangerous under the provisions in force concerning the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Information not relevant

SECTION 15: Regulatory information

REACH Regulation (No 1907/2006)

For imported components (products), Colorificio Atria has asked its suppliers for confirmation of their commitment to complying with REACH obligations. The component suppliers have issued a declaration of compliance.

For components of Community (EU) origin, this company qualifies as a downstream user and therefore has no pre-registration obligations.

All our suppliers of basic raw materials comply with this provision:

See: Fabbrica Adesive Resine Spa.

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

Seveso category — Directive 2012/18/EC: None

Restrictions relating to the product or the substances contained pursuant to Annex XVII of Regulation (EC) 1907/2006:

Product	Point 40
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Substances in the Candidate List (Art. 59 REACH):

On the basis of available data, the product does not contain SVHC substances in percentage greater than 0.1%.

Substances subject to authorisation (Annex XIV REACH): None

Substances subject to export notification obligation under Reg. (EC) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Health checks: Information not available

D.Lgs. 152/2006 and subsequent amendments — Emissions according to Part V Annex I:

TAB. D	Class 3	00.25 %
WATER		17.50 %

15.2. Chemical safety assessment

No chemical safety assessment has been prepared for the mixture / for the substances listed in section 3.

SECTION 16: Other information

Text of hazard statements (H) referred to in sections 2–3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
H226	Flammable liquid and vapour.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration giving an effect in 50% of the test population
- EC (CE) NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: Dangerous Goods Regulation of the International Air Transport Association
- IC50: Immobilisation concentration for 50% of the test population
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable exposure level
- PNEC: Predictable no-effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulation concerning the international carriage of dangerous goods by rail
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded at any time during occupational exposure
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)

16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. — 10th Edition
- Handling Chemical Safety
- INRS — Fiche Toxicologique (toxicological sheet)
- Patty — Industrial Hygiene and Toxicology
- N.I. Sax — Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA Agency website
- Database of SDS models for chemical substances — Italian Ministry of Health and Istituto Superiore di Sanità

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must verify the suitability and completeness of the information in relation to the specific use of the product.

This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe, under their own responsibility, the laws and provisions in force concerning hygiene and safety. No liability is accepted for improper use.

Provide adequate training for personnel assigned to the use of chemical products.

The classification of the product is based on the calculation methods of Annex I of CLP, unless otherwise indicated in sections 11 and 12.

The methods for evaluating physical-chemical properties are reported in section 9.

Changes from the previous revision:

Changes were made to the following sections:

03 / 09 / 12 / 15.

This document is an English translation of the manufacturer's original Italian Safety Data Sheet (revision noted above), prepared by ATRIA USA / Euro Star Enterprises LLC, Dallas TX (sales@atria-usa.com, +1 972-965-5881) for the convenience of US customers. In case of discrepancy the Italian original prevails. The original is available on request.