

# ATRIAFLOOR RASANTE ONE

Safety Data Sheet — English translation of the Italian original · Manufacturer: Colorificio ATRIA S.r.l., Partanna (TP), Italy · Revision n.4 of 19/03/2018 (new issue; printed 23/01/2019) · Product code: 08.CEM.8101 (FLO9) · 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.CEM.8101                   |
| Name                       | Atriafloor Rasante One        |
| Chemical name and synonyms | SYNTHETIC-CEMENTITIOUS RESINS |

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

|                 |                                             |
|-----------------|---------------------------------------------|
| Description/Use | COARSE-GRAIN SYNTHETIC CEMENTITIOUS COATING |
|-----------------|---------------------------------------------|

### 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<br>tel. +39 0924 49500<br>fax +39 0924 921250                                                           |
| e-mail of the competent person responsible for the safety data sheet | franco@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<br>Poison Control Centre (CAV) "Osp. Pediatrico Bambino Gesù", Rome — Piazza Sant'Onofrio, 4 — Phone 06 68593726<br>Az. Osp. Univ. Foggia, Foggia — V.le Luigi Pinto, 1 — Phone 0881-732326<br>Az. Osp. "A. Cardarelli", Naples — Via A. Cardarelli, 9 — Phone 081-7472870<br>CAV Policlinico "Umberto I", Rome — V.le del Policlinico, 155 — Phone 06-49978000<br>CAV Policlinico "A. Gemelli", Rome — Largo Agostino Gemelli, 8 — Phone 06-3054343<br>Az. Osp. "Careggi" U.O. Medical Toxicology, Florence — Largo Brambilla, 3 — Phone 055-7947819<br>CAV National Toxicological Information Centre, Pavia — Via Salvatore Maugeri, 10 — Phone 0382-24444<br>Osp. Niguarda Ca' Granda, Milan — Piazza Ospedale Maggiore, 3 — Phone 02-66101029<br>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

Contains: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1 mixture). May cause an allergic reaction.

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). The product therefore requires a safety data sheet in compliance with the provisions of Regulation (EU) 2015/830.

Any additional information concerning risks to health and/or the environment is given in sections 11 and 12 of this sheet.

Classification and hazard statements:

|                                                              |      |                                      |
|--------------------------------------------------------------|------|--------------------------------------|
| Serious eye damage, category 1                               | H318 | Causes serious eye damage.           |
| Skin irritation, category 2                                  | H315 | Causes skin irritation.              |
| Specific target organ toxicity — single exposure, category 3 | H335 | May cause respiratory irritation.    |
| Skin sensitisation, category 1                               | H317 | May cause an allergic skin reaction. |

### 2.2. Label elements

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

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Hazard pictograms | [Pictogram images shown in the original Italian SDS] |
| Signal word       | Danger                                               |

Hazard statements:

|      |                                      |
|------|--------------------------------------|
| H318 | Causes serious eye damage.           |
| H315 | Causes skin irritation.              |
| H335 | May cause respiratory irritation.    |
| H317 | May cause an allergic skin reaction. |

Precautionary statements:

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P102           | Keep out of reach of children.                                                                                                   |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P280           | Wear protective gloves and eye/face protection.                                                                                  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor/...                                                                                      |
| P501           | Dispose of contents/container in accordance with local, regional, national and international regulations.                        |

|           |                 |
|-----------|-----------------|
| Contains: | Powdered cement |
|-----------|-----------------|

### 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

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

| Identification                                                        | x = Conc. %         | Classification 1272/2008 (CLP)                                         |
|-----------------------------------------------------------------------|---------------------|------------------------------------------------------------------------|
| Powdered cement<br>CAS 65997-15-1<br>EC 266-043-4<br>INDEX -          | $30 \leq x < 32.5$  | Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317 |
| QUARTZ<br>CAS 14808-60-7<br>EC 238-878-4<br>INDEX -                   | $5 \leq x < 6$      | STOT RE 2 H373                                                         |
| ETHYLENE GLYCOL<br>CAS 107-21-1<br>EC 203-473-3<br>INDEX 603-027-00-1 | $0.3 \leq x < 0.35$ | Acute Tox. 4 H302                                                      |

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30/60 minutes, holding the eyelids well open. Seek medical advice immediately.

SKIN: Remove contaminated clothing. Shower immediately. Seek medical advice immediately.

INGESTION: Have the person drink as much water as possible. Seek medical advice immediately. Do not induce vomiting unless expressly authorised by a doctor.

INHALATION: Call a doctor immediately. Move the person to fresh air, away from the accident site. If breathing stops, apply artificial respiration. Take suitable precautions for the rescuer.

### 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

Stop the leak if there is no danger.

Wear suitable protective equipment (including the personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. 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

Collect the spilled product by suction into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Ensure sufficient ventilation of the place affected by the spill. 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

Handle the product after consulting all the other sections of this safety data sheet. Avoid release of the product into the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering areas where food is consumed.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep containers closed, in a well-ventilated place, protected from direct sunlight. Keep containers away from any incompatible materials, checking section 10.

### 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                                                                                                                               |
| ITA | Italy          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                           |
| 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 2018                                                                                                                                                        |

### ETHYLENE GLYCOL

Threshold limit value

| Type      | Country | TWA/8h |     | STEL/15min |     | Notes |
|-----------|---------|--------|-----|------------|-----|-------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |       |
| WEL       | GBR     | 52     | 20  | 104        | 40  |       |
| 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.

Provide an emergency shower with face and eye wash station.

#### 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 II professional safety footwear (ref. Directive 89/686/EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

## EYE PROTECTION

It is recommended to wear a hood visor or protective visor combined with hermetically sealed 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 B 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                         | paste                         |
| Colour                                 | White and colour-chart shades |
| 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                            | > 60 °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            | Thixotropic   |
| Explosive properties | Not available |
| Oxidising properties | Not available |

## 9.2. Other information

|                              |         |
|------------------------------|---------|
| Total solids (250°C / 482°F) | 59.07 % |
| VOC (Directive 2010/75/EC)   | 0.30 %  |
| VOC (volatile carbon)        | 0.12 %  |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

#### ETHYLENE GLYCOL

Absorbs moisture from air. Decomposes at temperatures above 200°C/392°F.

### 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.

#### ETHYLENE GLYCOL

Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphonic acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

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

#### ETHYLENE GLYCOL

Avoid exposure to: heat sources, open flames.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

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

#### ETHYLENE GLYCOL

May evolve: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Metabolism, kinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

ETHYLENE GLYCOL

WORKERS: inhalation; skin contact.

GENERAL POPULATION: inhalation of ambient air; skin contact with products containing the substance.

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

ETHYLENE GLYCOL

On ingestion it initially stimulates the central nervous system; a phase of depression then follows. Kidney damage may occur, with anuria and uraemia. The symptoms of overexposure are: vomiting, drowsiness, difficult breathing, convulsions. The lethal dose for humans is approximately 1.4 ml/kg.

#### 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) |

ETHYLENE GLYCOL

|               |                   |
|---------------|-------------------|
| LD50 (Oral)   | > 2000 mg/kg Rat  |
| LD50 (Dermal) | 9530 mg/kg Rabbit |

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Skin sensitiser

May cause an allergic reaction. Contains: *[the sentence is left incomplete in the original]*

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHYLENE GLYCOL

Available studies have not shown carcinogenic potential. In a 2-year carcinogenesis study conducted by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the diet, "no evidence of carcinogenic activity" was observed in male and female B6C3F1 mice (NTP, 1993).



## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## SPECIFIC TARGET ORGAN TOXICITY (STOT) — SINGLE EXPOSURE

May cause respiratory irritation

## 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: Thixotropic

## 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

ETHYLENE GLYCOL

|                     |                   |
|---------------------|-------------------|
| Solubility in water | 1000 – 10000 mg/l |
| Rapidly degradable  |                   |

### 12.3. Bioaccumulative potential

ETHYLENE GLYCOL

|                                        |       |
|----------------------------------------|-------|
| Partition coefficient: n-octanol/water | -1.36 |
|----------------------------------------|-------|

### 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 are to be considered special hazardous waste. The hazardousness of waste partly containing this product must be assessed in accordance with the legislative provisions in force.

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 original Italian SDS contains only the section heading with no content under Section 14.]

## SECTION 15: Regulatory information

### 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 3 |
|---------|---------|

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:

Workers exposed to this chemical agent hazardous to health must undergo health surveillance carried out in accordance with the provisions of art. 41 of D.Lgs. 81 of 9 April 2008, unless the risk to worker safety and health has been assessed as irrelevant, in accordance with art. 224 paragraph 2.

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

|        |         |         |
|--------|---------|---------|
| TAB. B | Class 3 | 05.00 % |
| TAB. D | Class 3 | 00.30 % |
| WATER  |         | 13.00 % |

### 15.2. Chemical safety assessment

No chemical safety assessment has been prepared for the mixture and the substances it contains.

## SECTION 16: Other information

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

|               |                                                                |
|---------------|----------------------------------------------------------------|
| Acute Tox. 4  | Acute toxicity, category 4                                     |
| STOT RE 2     | Specific target organ toxicity — repeated exposure, category 2 |
| Eye Dam. 1    | Serious eye damage, category 1                                 |
| Skin Irrit. 2 | Skin irritation, category 2                                    |

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| STOT SE 3    | Specific target organ toxicity — single exposure, category 3       |
| Skin Sens. 1 | Skin sensitisation, category 1                                     |
| H302         | Harmful if swallowed.                                              |
| H373         | May cause damage to organs through prolonged or repeated exposure. |
| H318         | Causes serious eye damage.                                         |
| H315         | Causes skin irritation.                                            |
| H335         | May cause respiratory irritation.                                  |
| H317         | May cause an allergic skin reaction.                               |

#### 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)
- 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.

Changes from the previous revision:

Changes were made to the following sections:

01 / 02 / 03 / 04 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 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.