

WILD RUST ATTIVATORE

Safety Data Sheet — English translation of the Italian original (compliant with Annex II of REACH — Regulation (EU) 2020/878) · Manufacturer: Colorificio ATRIA S.r.l., Partanna (TP), Italy · Revision n.2 of 06/03/2025 (replaces revision 1 of 11/01/2023) · Product code: 01.MLQ.9200 · Sold in the US as Wild Rust Activator

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

1.1. Product identifier

Code:	01.MLQ.9200
Product name	WILD RUST ATTIVATORE
Chemical name and synonyms	dilute ammonia solution
Code notified to the ISS (Italian National Institute of Health)	
Company code:	00013450812
Preparation code:	01.MLQ.9200

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

Description/Use	Rust activator
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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) — ITA (Italy) tel. +39 0924 49500 fax +39 0924 921250
E-mail of the competent person responsible for the safety data sheet	amario@atria.it
Supplier	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 information contact: Colorificio Atria Srl — Technical Office, +39 0924 49500. Hours 08:00–13:00 / 14:30–17:00, excluding public holidays.

US contact: ATRIA USA 972-965-5881 (business hours).

Italian Poison Control Centres (CAV):

- Osp. Pediatrico “Bambino Gesù”, Roma, Piazza Sant’Onofrio 4 — Tel. 06 68593726
- Az. Osp. Univ. Foggia, Foggia, V.le Luigi Pinto 1 — Tel. 0881-732326
- Az. Osp. “A. Cardarelli”, Napoli, Via A. Cardarelli 9 — Tel. 081-7472870
- CAV Policlinico “Umberto I”, Roma, V.le del Policlinico 155 — Tel. 06-49978000
- CAV Policlinico “A. Gemelli”, Roma, Largo Agostino Gemelli 8 — Tel. 06-3054343
- Az. Osp. “Careggi” U.O. Tossicologia Medica, Firenze, Largo Brambilla 3 — Tel. 055-7947819
- CAV Centro Nazionale di Informazione Tossicologica, Pavia, Via Salvatore Maugeri 10 — Tel. 0382-24444
- Osp. Niguarda Ca’ Granda, Milano, Piazza Ospedale Maggiore 3 — Tel. 02-66101029
- Azienda Ospedaliera Papa Giovanni XXII, Bergamo, Piazza OMS 1 — Tel. 800883300

SECTION 2: Hazards identification

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 compliant with the provisions of Regulation (EU) 2020/878.

Any additional information on health and/or environmental risks is given in Sections 11 and 12 of this sheet.

Classification and hazard statements:

Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.
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2.2. Label elements

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

Hazard pictograms:	--
Signal words:	--

Hazard statements:

H412	Harmful to aquatic life with long lasting effects.
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Precautionary statements:

P273	Avoid release to the environment.
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2.3. Other hazards

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.

The product does not contain substances with endocrine-disrupting properties in concentration $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
AMMONIUM CHLORIDE INDEX 017-014-00-8 EC 235-186-4 CAS 12125-02-9	$1 \leq x < 1.5$	Acute Tox. 4 H302, Eye Irrit. 2 H319 ATE Oral: 500 mg/kg
COPPER SULFATE PENTAHYDRATE INDEX 029-023-00-4 EC 231-847-6 CAS 7758-98-7	$0.5 \leq x < 0.6$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 ATE Oral: 500 mg/kg

The full text of the hazard statements (H) is given in Section 16 of the sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures

No effects are expected such as to require special first aid measures. The information below constitutes practical guidance on correct behaviour in the event of contact with a chemical product, even a non-hazardous one. If in doubt, or if symptoms are present, contact a physician and show them this document. In the event of more severe symptoms, call 118 (the Italian medical emergency number) to obtain immediate medical assistance.

EYES: Wash immediately and thoroughly with running water. If symptoms occur, consult a physician.

SKIN: Wash thoroughly with water. If symptoms occur, consult a physician.

INGESTION: Do not induce vomiting unless expressly authorized by a physician. Do not administer anything orally if the person is unconscious. Consult a physician.

INHALATION: Move the person to fresh air. If symptoms occur, consult a physician.

Protection of first-aiders

It is good practice for a rescuer assisting a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protection depends on the hazard of the substance or mixture, the route of exposure and the extent of the contamination. In the absence of more specific indications, disposable gloves are recommended in the event of possible contact with biological fluids. For the type of PPE suited to the characteristics of the substance or mixture, refer to Section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, no cases of delayed effects following exposure to this product are known.

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

In case of symptoms, whether acute or delayed, consult a physician.

Means to be made available at the workplace for specific and immediate treatment

Running water for skin and eye washing.

SECTION 5: Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

Extinguishing media are the conventional ones: carbon dioxide, foam, dry chemical powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

Do not use a full water jet.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE: Any fires develop thick black smoke. Exposure to decomposition products may be hazardous to health. 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 product decomposition and the development of substances potentially hazardous to health. Always wear full fire-prevention protective equipment. Collect firefighting water, which must not be discharged into sewers. Dispose of contaminated water used for extinguishing and of the fire residue in accordance with applicable regulations.

EQUIPMENT

Normal firefighting clothing, such as an open-circuit compressed-air 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 the skin, eyes and personal clothing. These instructions apply both to processing personnel and to emergency responders.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Draw up the spilled product into a suitable container. Assess the compatibility of the container to be used with the product by checking Section 10. Absorb the remainder with inert absorbent material. Provide sufficient ventilation of the area affected by the leak. Disposal of the contaminated material must be carried out in accordance with the provisions of Section 13.

6.4. Reference to other sections

Any information regarding 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 dispersion 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 eaten.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Keep containers closed, in a well-ventilated place, away 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

Information not available

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 through effective local extraction.

HAND PROTECTION

Protect hands with category III work gloves. For the final choice of work-glove material (ref. standard EN 374) the following must be considered: compatibility, degradation, permeation time. 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 manner of use.

SKIN PROTECTION

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

EYE PROTECTION

It is advisable to wear airtight protective goggles (ref. standard EN ISO 16321).

RESPIRATORY PROTECTION

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. It is advisable to wear a mask with a type B filter, whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use (ref. standard EN 14387). If the substance in question is odourless or its odour threshold is higher than the corresponding TLV-TWA, and in case of emergency, wear an open-circuit compressed-air breathing apparatus (ref. standard EN 137) or an external air-intake 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 legislation.

Product residues must not be discharged uncontrolled into waste water or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	not available	
Colour	not available	
Odour	not available	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	

Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	17.5 mmHg	
Density and/or relative density	1.01	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	1.50 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

COPPER SULFATE PENTAHYDRATE

Aqueous solutions behave as: weak acids.

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.

COPPER SULFATE PENTAHYDRATE

May react dangerously with: strong oxidizing agents, magnesium powder, hydroxylamine.

10.4. Conditions to avoid

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

AMMONIUM CHLORIDE

Avoid exposure to: humidity, heat sources.

10.5. Incompatible materials

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

AMMONIUM CHLORIDE

Incompatible with: water, bromine trifluoride, bromine pentafluoride, iodine heptafluoride, potassium chlorate, alkalis, alkali carbonates, acids, lead salts, silver salts.

10.6. Hazardous decomposition products

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

AMMONIUM CHLORIDE

May develop: nitrogen oxides, ammonia, hydrochloric acid.

COPPER SULFATE PENTAHYDRATE

May develop: sulfur oxides.

SECTION 11: Toxicological information

In the absence of experimental toxicological data on the product itself, any health hazards of the product have been evaluated on the basis of the properties of the substances it contains, according to the criteria laid down by the reference legislation for classification. Therefore, consider the concentration of the individual hazardous substances possibly cited in Section 3 in order to evaluate the toxicological effects deriving from exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no relevant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no relevant component)

AMMONIUM CHLORIDE

LD50 (Oral):	1410 mg/kg Rat
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ATE (Oral):	500 mg/kg — estimate from table 3.1.2 of Annex I of CLP (value used for the calculation of the acute toxicity estimate of the mixture)
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COPPER SULFATE PENTAHYDRATE

LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	481 mg/kg

SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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

11.2. Information on other hazards

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under assessment.

SECTION 12: Ecological information

The product is to be considered hazardous to the environment and is harmful to aquatic organisms, with long-term adverse effects on the aquatic environment.

12.1. Toxicity

COPPER SULFATE PENTAHYDRATE

LC50 — Fish	0.0384 mg/l/96h Pimephales promelas
EC50 — Crustaceans	0.0098 mg/l/48h Daphnia magna
EC50 — Algae / Aquatic plants	0.003 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC — Fish	0.0116 mg/l Oncorhynchus mykiss
Chronic NOEC — Crustaceans	0.0126 mg/l Daphnia magna
Chronic NOEC — Algae / Aquatic plants	0.0029 mg/l Phaeodactylum tricornutum [sic]

12.2. Persistence and degradability

AMMONIUM CHLORIDE

Water solubility	> 10000 mg/l
Degradability	data not available

COPPER SULFATE PENTAHYDRATE

Water solubility	220 mg/l
Degradability	NOT rapidly degradable

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.

12.6. Endocrine disrupting properties

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment under assessment.

12.7. Other adverse effects

Information not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered hazardous special waste. The hazardousness of waste partly containing this product must be assessed on the basis of the applicable legal provisions.

Disposal must be entrusted to a company authorized 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 or ID 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. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15: Regulatory information

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

Seveso category — Directive 2012/18/EU: None

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

Product

Point	3
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Substances contained

Point	75
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Regulation (EU) 2019/1148 — on the marketing and use of explosives precursors

not applicable

Substances in the Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage $\geq 0.1\%$.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification obligation under Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health surveillance

Information not available

D.Lgs. 152/2006 and subsequent amendments

Emissions according to Part V, Annex I:

TAB. B	Class III — 00.50 %
WATER	98.50 %

15.2. Chemical safety assessment

A chemical safety assessment has not been prepared for the mixture / for the substances listed in Section 3.

SECTION 16: Other information

Text of the hazard statements (H) cited in Sections 2–3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the transport of dangerous goods by road
- ATE / STA: Acute Toxicity Estimate

- CAS: Chemical Abstract Service number
- CE (EC): Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No-Effect Level
- EC50: Concentration that gives an effect in 50% of the test population
- 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: Immobilization concentration for 50% of the test population
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by rail
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded at any time during occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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) 2020/878 (Annex II of the REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
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) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)

22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (EU) 2023/707
24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (EU) 2023/1435 (XX 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 his own responsibility, the laws and provisions in force concerning hygiene and safety. No liability is accepted for improper use. Provide adequate training to personnel involved in the use of chemical products.

CLASSIFICATION CALCULATION METHODS

Physico-chemical hazards: the classification of the product was derived from the criteria established by the CLP Regulation, Annex I, Part 2. The methods for evaluating the physico-chemical properties are reported in Section 9.

Health hazards: the classification of the product is based on the calculation methods of Annex I of CLP, Part 3, unless otherwise indicated in Section 11.

Environmental hazards: the classification of the product is based on the calculation methods of Annex I of CLP, Part 4, unless otherwise indicated in Section 12.

Changes from the previous revision

Changes were made to the following sections:

03 / 04 / 09 / 11 / 15 / 16.

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.