

ATRIAFLOOR PRIMER BC

Safety Data Sheet — English translation of the Italian original · Manufacturer: Colorificio ATRIA S.r.l., Partanna (TP), Italy · Revision n.3 of 03/09/2025 · Product code: — (FLO) · Compliant with Annex II of REACH — Regulation (EU) 2020/878 · Supersedes revision: 2 (revision date 03/09/2025)

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

1.1. Product identifier

Code	-
Name	Atriafloor Primer BC
Chemical name and synonyms	Water-based epoxy-amide
UFI	QWG0-K039-0008-1741

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

Description/Use	Water-dilutable bonding primer
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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
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 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 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) 2020/878.

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:

Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitisation, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

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.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/protective clothing and eye/face protection.
P310	Immediately call a POISON CENTER/doctor/...

Contains:	Polyaminoamide Bisphenol A Epichlorohydrin Formaldehyde, oligomeric reaction products
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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 $\geq 0.1\%$.

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

SECTION 3: Composition/information on ingredients

Polyaminoamide
hardener aliphatic.

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Formaldehyde, oligomeric reaction products INDEX - EC 500-006-8 CAS 9003-36-5 REACH Reg. 01-2119454392-40	$5 \leq x < 10$	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
Polyaminoamide INDEX - EC 614-452-7 CAS 68410-23-1	$5 \leq x < 10$	Repr. 2 H361d, Eye Dam. 1 H318, Skin Irrit. 2 H315
(2-methoxymethylethoxy)propanol INDEX - EC 252-104-2 CAS 34590-94-8 REACH Reg. 01-2119450011-60-XXXX	$2.5 \leq x < 5$	Substance with a Community workplace exposure limit.
Bisphenol A Epichlorohydrin INDEX 603-074-00-8 EC 500-033-5 CAS 25068-38-6 REACH Reg. 01-2119456619-26-0000	$1 \leq x < 2.5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
QUARTZ INDEX - EC 238-878-4 CAS 14808-60-7	$1 \leq x < 2.5$	STOT RE 2 H373
ETHYLENE GLYCOL INDEX 603-027-00-1 EC 203-473-3 CAS 107-21-1	$0.05 \leq x < 0.1$	Acute Tox. 4 H302 ATE Oral: 500 mg/kg

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

In case of doubt, or if symptoms are present, seek medical advice and show this document.

In case of more serious symptoms, call the emergency medical service (118 in Italy) for immediate medical assistance.

EYES: Remove contact lenses, if present and easy to do. Wash immediately with plenty of water for at least 15 minutes, holding the eyelids well open. Seek medical advice immediately.

SKIN: Remove all contaminated clothing immediately. Wash immediately with plenty of running water (and soap if possible). Seek medical advice immediately. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless expressly authorised by a doctor. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

INHALATION: Move the person to fresh air, away from the accident site. In case of respiratory symptoms (cough, dyspnoea, difficult breathing, asthma), keep the injured person in a position comfortable for breathing. If necessary, administer oxygen. If breathing stops, apply artificial respiration. Seek medical advice immediately.

Protection of first aiders

It is good practice for the 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 hazardousness of the substance or mixture, the mode of exposure and the extent of contamination. In the absence of other more specific indications, the use of disposable gloves is recommended in case 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: On the basis of 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

Immediately call a POISON CENTER/doctor/...

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

Choose the extinguishing media most appropriate to the specific situation.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE

The product is neither flammable nor combustible.

5.3. Advice for firefighters

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:

ITA	Italy	Decreto Legislativo 9 Aprile 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC.
	ACGIH	ACGIH 2025

(2-methoxymethylethoxy)propanol

Threshold limit value

Type	Country	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	308	50			SKIN

Predicted no-effect concentration on the environment — PNEC

Reference value in fresh water	19	mg/l
Reference value in marine water	1.9	mg/l
Reference value for fresh water sediments	70.2	mg/kg
Reference value for marine water sediments	7.02	mg/kg
Reference value for water, intermittent release	190	mg/l
Reference value for STP microorganisms	4168	mg/l
Reference value for the terrestrial compartment	2.74	mg/kg/d

Health — Derived no-effect level — DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation				37.2 mg/m ³				308 mg/kg
Dermal				121 mg/kg bw/d				283 mg/kg bw/d

ETHYLENE GLYCOL

Threshold limit value

Type	Country	TWA/8h		STEL/15min		Notes / Remarks
		mg/m ³	ppm	mg/m ³	ppm	
VLEP	ITA	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
ACGIH			25		50	
ACGIH				10		INHAL

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

TLV of the solvent mixture: 1 mg/m³

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.

For the final choice of work-glove material (ref. standard EN 374), consider: compatibility, degradation, breakthrough 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 mode of use.

SKIN PROTECTION

Wear long-sleeved work clothing and category II 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 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 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). 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.

Product residues must not be discharged without control 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	viscous liquid	
Colour	White and colour-chart shades	
Odour	characteristic	
Melting point or freezing point	not available	
Initial boiling point	not available	
Flammability	non-combustible	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7.5–8	Method: pH meter
Kinematic viscosity	not available	
Dynamic viscosity	100–130	Method: FORD 4 CUP · Temperature: 25 °C
Solubility	soluble in water	

Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1.45 kg/l	Method: liquid pycnometer · Temperature: 25 °C
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)	52.00 %	Method: ventilated oven
VOC (Directive 2010/75/EU)	5.72 % — 83.00	g/litre

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

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 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

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

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

(2-methoxymethylethoxy)propanol

LD50 (Dermal)	9510 mg/kg Rabbit
LD50 (Oral)	8740 mg/kg Rat
LC50 (Inhalation of vapours)	3404.47 mg/l/1h Rat

ETHYLENE GLYCOL

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

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Skin sensitiser

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

Suspected of damaging the unborn child

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

On the basis of 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 evaluation.

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

(2-methoxymethylethoxy)propanol

LC50 - Fish	> 1000 mg/l/96h <i>Poecilia reticulata</i> (guppy)
EC50 - Crustacea	1919 mg/l/48h <i>Daphnia magna</i>
EC50 - Algae / Aquatic plants	6999 mg/l/72h <i>Scenedesmus subspicatus</i>

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
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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 $\geq 0.1\%$.

12.6. Endocrine disrupting properties

On the basis of 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 evaluation.

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 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.

The management of waste arising from the use or dispersal of this product must be organised in compliance with occupational safety regulations. See section 8 for any need for PPE.

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
Substances contained	Point 75

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

not applicable

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

On the basis of 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 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 III	01.80 %
TAB. D	Class III	00.05 %
WATER		32.95 %

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:

Repr. 2	Reproductive toxicity, category 2
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
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitisation, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of dangerous goods by road
- ATE / STA: Acute Toxicity Estimate
- CAS: Chemical Abstract Service number
- EC (CE): Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived no-effect level
- EC50: Concentration giving 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: Immobilisation concentration for 50% of the test population
- IMDG: International Maritime Code for 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: Predictable environmental concentration
- PEL: Predictable exposure level
- PMT: Persistent, mobile and toxic
- 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: 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)
 26. Delegated Regulation (EU) 2024/197 (XXI Atp. CLP)
 27. Delegated Regulation (EU) 2024/2564 (XXII 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.

CLASSIFICATION CALCULATION METHODS

Physical-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 physical-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:

01 / 02 / 03 / 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.