



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: **F.0510150600**
Product name: **BISATEN ANTICONDENSA**

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

Intended use: **Special anti-mould, anti-condensate coating. It produces a resistant finish suitable to prevent dripping caused by condensation of excess damp's absorption. Suitable on roofs or walls in particular places like bathrooms, kitchens, beer houses, bakeries, enological or food packaging industries, dairies, swimming baths ecc. To optimize the anti-mould and anti-condensate, it is recommended to apply three coats after treatment with the immunizing DETERGENTE BISATEN and FISSATIVO BISATEN.**

Identified Uses	Industrial	Professional	Consumer
Recommended uses	-	✓	✓

1.3. Details of the supplier of the safety data sheet

Name: **Giuseppe Di Maria S.p.A.**
Full address: **4 Enrico Mattei**
District and Country: **90124 Palermo (PA) Italy**
Tel.: **+39 091 391288**
Fax: **+39 091 476374**

e-mail address of the competent person responsible for the Safety Data Sheet: **sicurezza@dimaria.it**

Product distribution by: **Giuseppe Di Maria S.p.A.**

1.4. Emergency telephone number

For urgent inquiries refer to: **Phone numbers of Poison Control Centers active 24 hours over 24 in Italy:**
ROMA: Centro Antiveleni - Policlinico A.Gemelli
- Universita' Cattolica Del Sacro Cuore - Tel. 06 3054343
For any further information: Giuseppe Di Maria SpA Tel. +39 091 391288
Monday to Friday 9:00-12:00 13:00-16:30

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
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 EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 2 / 11

SECTION 2. Hazards identification ... / >>

Hazard pictograms: --

Signal words: --

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains: mix of: 5-chloro-2-methyl-2H-isothiazolin-3-one [EC no. 247-500-7],
2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] 3:1
2-octyl-2H-isothiazol-3-one
May produce an allergic reaction.

Precautionary statements:

P273 Avoid release to the environment.
P501 Dispose of contents / container collection points for hazardous or special waste

VOC (Directive 2004/42/EC) :

Matt coatings for interior walls and ceilings.

VOC given in g/litre of product in a ready-to-use condition : 30,00

Limit value: 30,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB 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)
ETHANEDIOL		
CAS	107-21-1	0,8 ≤ x < 0,9
EC	203-473-3	Acute Tox. 4 H302, STOT RE 2 H373
INDEX	603-027-00-1	
1-Hydroxypyridine-2-thione zinc salt		
CAS	13463-41-7	0,3 ≤ x < 0,35
EC	236-671-3	Acute Tox. 3 H301, Acute Tox. 3 H331, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10
INDEX		
ZINC OXIDE		
CAS	1314-13-2	0,1 ≤ x < 0,15
EC	215-222-5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
INDEX	030-013-00-7	
Carbendazim (ISO)		
CAS	10605-21-7	0,05 ≤ x < 0,1
EC	234-232-0	Muta. 1B H340, Repr. 1B H360FD, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10
INDEX	613-048-00-8	
2-octyl-2H-isothiazol-3-one		
CAS	26530-20-1	0,025 ≤ x < 0,05
EC	247-761-7	Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 4 H302, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10, EUH208
INDEX	613-112-00-5	



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 3 / 11

SECTION 3. Composition/information on ingredients ... / >>

mix of: 5-chloro-2-methyl-2H-isothiazolin-3-one [EC no. 247-500-7], 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] 3:1)
CAS 55965-84-9 $0 \leq x < 0,0015$ Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314,
Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC
INDEX 613-167-00-5

The full wording of hazard (H) phrases is given in section 16 of the 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, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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 EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 4 / 11

SECTION 6. Accidental release measures ... / >>

6.3. Methods and material for containment and cleaning up

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

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	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 2019

ETHANEDIOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	
VLEP	ITA	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH				100 (C)		

ZINC OXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	5				
TLV-ACGIH		2		10		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 5 / 11

SECTION 8. Exposure controls/personal protection ... / >>

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

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

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	white
Odour	characteristic
Odour threshold	Not available
pH	8,5
Melting point / 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 inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,840 ÷ 0,860 kg/litro
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	2500 ÷ 5000 cps (Brookfield RVT a 20°C e 20 rpm)
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Total solids (105°C / 221°F)	44,60 %
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SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 6 / 11

SECTION 10. Stability and reactivity ... / >>

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:	> 5 mg/l
LD50 (Oral) of the mixture:	>2000 mg/kg
LD50 (Dermal) of the mixture:	Not classified (no significant component)

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

1-Hydroxypyridine-2-thione zinc salt	
LD50 (Oral)	269 mg/kg Rat
LD50 (Dermal)	> 2000 mg/kg Rat
LC50 (Inhalation)	0,6 mg/l Rat

mix of: 5-chloro-2-methyl-2H-isothiazolin-3-one [EC no. 247-500-7], 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] 3:1	
LD50 (Oral)	64 mg/kg rat
LD50 (Dermal)	87,12 mg/kg rabbit
LC50 (Inhalation)	0,33 mg/l/4h rat



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 7 / 11

SECTION 11. Toxicological information ... / >>

Carbendazim (ISO)
LD50 (Oral) > 5000 mg/kg ratto
LD50 (Dermal) > 5000 mg/kg rstto
LC50 (Inhalation) > 5 mg/l/4h ratto

2-octyl-2H-isothiazol-3-one
LD50 (Oral) 550 mg/kg ratto
LD50 (Dermal) 690 mg/kg coniglio
LC50 (Inhalation) 0,27 mg/l/4h 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 produce an allergic reaction.

Contains:

mix of: 5-chloro-2-methyl-2H-isothiazolin-3-one [EC no. 247-500-7], 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] 3:1
2-octyl-2H-isothiazol-3-one

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

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: 2500 + 5000 cps (Brookfield RVT a 20°C e 20 rpm)

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

1-Hydroxypyridine-2-thione zinc salt
LC50 - for Fish 0,021 mg/l/96h Lepomis macrochirus
EC50 - for Crustacea 0,05 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants 0,067 mg/l/72h Selenastrum capricornutum

mix of: 5-chloro-2-methyl-2H-isothiazolin-3-one [EC no. 247-500-7], 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] 3:1
LC50 - for Fish 0,19 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea 0,16 mg/l/48h Daphnia magna
Chronic NOEC for Fish 0,05 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea 0,1 mg/l Daphnia magna



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 8 / 11

SECTION 12. Ecological information ... / >>

Carbendazim (ISO)	
LC50 - for Fish	0,61 mg/l/96h
EC50 - for Crustacea	0,22 mg/l/48h
EC50 - for Algae / Aquatic Plants	2,7 mg/l/72h
2-octyl-2H-isothiazol-3-one	
LC50 - for Fish	0,14 mg/l/96h Pimephales promelas
EC50 - for Crustacea	0,18 mg/l/48h Daphnia magna
Chronic NOEC for Fish	0,022 mg/l Oncorhynchus mykiss
Chronic NOEC for Algae / Aquatic Plants	0,0016 mg/l Daphnia magna
ZINC OXIDE	
LC50 - for Fish	1,1 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Fish	0,53 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,024 mg/l

12.2. Persistence and degradability

ETHANEDIOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
ZINC OXIDE	
Solubility in water	2,9 mg/l
Solubility in water	0,1 - 100 mg/l
Degradability: information not available	
NOT rapidly degradable	

12.3. Bioaccumulative potential

ETHANEDIOL	
Partition coefficient: n-octanol/water	-1,36
ZINC OXIDE	
BCF	> 175

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 any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



SECTION 14. Transport information ... / >>

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

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 contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Contained substance

Point 29-30 Carbendazim (ISO)

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC):

Matt coatings for interior walls and ceilings.

15.2. Chemical safety assessment

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



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 10 / 11

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Muta. 1B	Germ cell mutagenicity, category 1B
Repr. 1B	Reproductive toxicity, category 1B
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
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
H340	May cause genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament



Giuseppe Di Maria S.p.A.

BISATEN ANTICONDENSA

Revision nr.1
Dated 29/01/2018
First compilation
Printed on 17/11/2020
Page n. 11 / 11

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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 website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.