

MEPLEN EC T20 V0R

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

Product name MEPLEN EC T20 V0R

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

Intended use PRODUCTION OF MANUFACTURED ARTICLES IN PLASTIC MATERIALS

1.3. Details of the supplier of the safety data sheet

Name MEPOL SRL
Full address Via John F. Kennedy, n° 7d
District and Country 31039 Riese Pio X (TV) Italia
Tel: +39 0423 746168

E-mail address of the competent person responsible for the Safety Data Sheet tatiana.melato@mepol.com

1.4. Emergency telephone number

For urgent inquiries refer to
England, Medical Toxicology Information Services: +442071880100;
Wales&Ireland, National Poisons Information Service: 08448920111;
Scotland, National Poisons Information Centre: 0870 600 6266;

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.

Chemical-physical hazards: the product is not classified for this hazard class

Health hazards: the product is suspected of causing cancer and damaging the unborn child.

Environmental hazards: the product is harmful to aquatic life with long lasting effects.

Hazard classification and indication:

Classificazione e indicazioni di pericolo:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
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.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P280	Wear protective gloves and clothing, eye protection and face protection.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P273	Avoid release to the environment.

Contiene: Antimony trioxide
Hexaboron dizinc undecaoxide

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

3.2. Mixtures

Contains:

Identification	Concentration %	Classification 1272/2008 (CLP)	Specific concentration limits 1272/2008 (CLP)
Hexaboron dizinc undecaoxide			
CAS 138265-88-0	2 - 7	Repr. 2 H361d, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411	Not applicable
CE 235-804-2			
INDEX -			
Nr. Reg. 01-2119691658-19-XXXX			
Antimony trioxide			
CAS 1309-64-4	2 - 7	Carc. 2 H351, STOT RE 2 H373	Not applicable
CE 215-175-0			
INDEX 051-005-00-X			
Nr. Reg. 01-2119475613-35-XXXX			

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Consult a doctor. Treat symptomatically

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be: carbon dioxide, powder.

UNSUITABLE EXTINGUISHING EQUIPMENT

Water, foam.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. After thermal degradation process, BO_x, SbO_x may be released.

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

FOR NON-EMERGENCY PERSONNEL

Alert the personnel in charge of managing such emergencies. Move away from the accident area, if you are not equipped with the personal protective equipment listed in Section 8.

FOR EMERGENCY RESPONDERS

Move all inadequately equipped personnel away to deal with the emergency.

Wear personal protective equipment as set forth in section 8 of the safety data sheet in order to prevent contaminating skin, eyes and personal clothing. Stop the leak if there is no danger.

Allow workers to access the area affected by the accident only after appropriate decontamination is completed.

Aerate the premises affected by the accident.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

No specific end uses are intended other than the relevant uses set out in Section 1.2 of this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

TLV-ACGIH	ACGIH 2018
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Antimony trioxide							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Annotation	Critical effects
		mg/m³	ppm	mg/m³	ppm		
TLV-ACGIH		0,03				A3	Pneumonitis

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,135	mg/l
Normal value in marine water	0,013	mg/l
Normal value for fresh water sediment	13,4	mg/kg/d
Normal value for marine water sediment	2,68	mg/kg/d
Normal value of STP microorganisms	3,05	mg/l
Normal value for the terrestrial compartment	44,3	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				33,5 mg/kg bw/d				
Inhalation			0,095 mg/m ³				0,315 mg/m ³	
Skin				33,5 mg/kg bw/d				67 mg/kg bw/d

Analytical-Methods

<http://amcaw.ifa.dguv.de/substance/methoden/078-L-Antimony.pdf>

Hexaboron dizinc undecaoxide

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Annotation	Critical effects
		mg/m ³	ppm	mg/m ³	ppm		
TLV-ACGIH		2 (l)		6 (l)		A4	irritation to the upper respiratory tract

Predicted no-effect concentration - PNEC

Normal value in fresh water	20,6	µg/L
Normal value in marine water	6,1	µg/L
Normal value for fresh water sediment	117,8	mg/kg/d
Normal value for marine water sediment	56,5	mg/kg/d
Normal value of STP microorganisms	100	µg/L
Normal value for the terrestrial compartment	35,6	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				2,4 mg/kg bw/d				
Inhalation				8,3 mg/m ³				22,4 mg/m ³
Skin				1205 mg/kg bw/d				1585 mg/kg bw/d

Legend:

(C) = CEILING

INHAL = Inhalable Fraction

RESP = Respirable Fraction

THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available

NEA = no exposure expected

NPI = no hazard identified.

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.

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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC 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). Provide an emergency shower with face and eye wash station.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

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	Solid (granules)
Colour	Various
Odour	Characteristic
Odour threshold	Not available
pH	Not applicable (solid product)
Melting point / freezing point	170°C
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	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 applicable (product is a mixture)
Vapour density	Not applicable (product is a mixture)
Relative density	1,25 g/cm ³
Solubility	Not available
Partition coefficient: n-octanol/water	Not applicable (product is a mixture)
Auto-ignition temperature	> 450 °C.
Decomposition temperature	>300 °C
Viscosity	Not available
Explosive properties	Not applicable (absence of chemical groups associated with explosive properties pursuant to the provisions of Annex I, Part 2, chap. 2.1.4.3. of the Reg. (EC) 1272/2008 - CLP)
Oxidising properties	Not applicable (absence of requirements related to the presence of atoms and/or chemical bonds associated with oxidising properties in component molecules, pursuant to the provisions of Annex I, Part 2, 2.13.4 of (EC) Reg.1272/2008 – CLP)

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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

After thermal degradation process, BO_x, SbO_x may be released.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Failing any experimental toxicological data on the product, any health hazards posed by the product have been assessed based on the properties of the substances it contains, according to the criteria set forth in the reference standards for classification.

Therefore, consider the concentration of any individual hazardous substances listed in sec. 3 to assess the toxicological effects caused by exposure to the product.

ACUTE TOXICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SKIN CORROSION / IRRITATION

On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION

On the basis of available data and in view of the classification criteria set forth in table 3.3.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

RESPIRATORY OR SKIN SENSITISATION

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

GERM CELL MUTAGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

CARCINOGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is classified **Carc. 2; H351**

REPRODUCTIVE TOXICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is classified **Repr. 2; H361d.**

STOT - SINGLE EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

STOT - REPEATED EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

ASPIRATION HAZARD

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

The following are the toxicological data referring to the substances contained in the mixture:

Hexaboron dizinc undecaoxide

LD50 (Dermal) > 5000 mg/kg Coniglio
LC50 (Inhalation) 4,95 mg/l/4h Ratto

Antimony trioxide

LD50 (Dermal) > 8300 mg/kg Coniglio
LC50 (Inhalation) > 5,2 mg/l/4h Ratto

SECTION 12. Ecological information

12.1. Toxicity

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

Hexaboron dizinc undecaoxide

LC50 - for Fish	820 µg/L Oncorhynchus kisutch
EC50 - for Crustacea	413 µg/L

Antimony trioxide

LC50 - for Fish	> 14,4 mg/l/96h Pimephales promelas
EC50 - for Crustacea	12,1 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 36,6 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

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. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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.

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

Biocidal Regulation (Reg. (EU) 528/2012):

not applicable

Detergent Regulation (Reg. (EC) 648/2004):

not applicable

Dir. 2004/42 / EC - VOC / D.Lgs. 161/2006:

not applicable

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

None

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

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

Antimony trioxide

Hexaboron dizinc undecaoxide

SECTION 16. Other information

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

Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, 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
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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
- 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).
- A1 = a recognized human carcinogen
- A2 = suspected carcinogen for humans
- A3 = recognized animal carcinogen with unknown relevance to humans.
- A4 = not classified as a human carcinogen.
- A5 = not suspected of being carcinogenic to humans.
- IBE = Substance with Biological Exposure Indicator.

GENERAL BIBLIOGRAPHY

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

Sections modified from previous version: ALL.