



SAFETY DATA SHEET

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name : **MAKROLON ET3117**

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

Use : Production of moulded plastic articles

Details of the supplier of the safety data sheet:

Bayer MaterialScience AG
BMS-IO-S&T-PSRA-PSI Product Safety
D-51368 LEVERKUSEN

Tel: +49 214 30 25026

Fax: +49 214 30 9650035

e-mail: productsafety@bayerbms.com

Emergency telephone number: Address in Australia: Bayer Australia Ltd.

17 - 19 Wangara Drive, Cheltenham, VIC, 3192, Australia

Phone: +61 3 9581 9888 Fax: +61 3 9583 9003

Emergency Tel. No. 1800 033 111 Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

Non-hazardous substance according to GHS classification

GHS-Labeling

Non-hazardous substance according to GHS classification

NON-HAZARDOUS according to the criteria of NOHSC NON-DANGEROUS GOODS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Type of product: Mixture

Polycarbonate based on bisphenol A



SAFETY DATA SHEET

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact: CONTACT WITH THE HOT MELT: Cool immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

The following information refers to the handling of the product at room temperature. In case of skin contact wash affected areas thoroughly with soap and plenty of water.

5. Fire-fighting measures

Suitable extinguishing media: sprayed water jet, extinguishing powder, Carbon dioxide (CO₂), Foam, Dry chemical

Special hazards arising from the substance or mixture:

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

Advice for fire-fighters:

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: slip hazard!

Methods and material for containment and cleaning up: Use mechanical handling equipment. Avoid dust formation.

Reference to other sections: For further disposal measures see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:



SAFETY DATA SHEET

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

Under recommended processing conditions small amounts of residues of monomers and residual solvent may be emitted. Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in section 8 should not be exceeded.

Dust must be removed by effective exhaust ventilation.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Change contaminated clothing.

Conditions for safe storage, including any incompatibilities:

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

Control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
phenol	108-95-2	AU OEL	TWA	1 ppm 4 mg/m ³		
phenol	108-95-2	AU OEL	Skin			Dermal absorption possible
chlorobenzene	108-90-7	AU OEL	TWA	10 ppm 46 mg/m ³		

Exposure controls**Respiratory protection:**

In case of dust formation use respiratory equipment with filter type particle filter P1 according to EN 143.

Hand protection:

Suitable materials for safety gloves; EN 374:

Polyvinyl chloride - PVC (≥ 0.5 mm)

Contaminated and/or damaged gloves must be changed.

Eye protection:

Wear eye/face protection.

**SAFETY DATA SHEET**

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

Skin and body protection:

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance:	granular
Colour:	different according to colouration
Odour:	odourless
pH:	not applicable
Softening point:	> 130 - 160 °C
Upper/lower flammability or explosive limits:	not applicable
Vapour pressure:	not applicable
Density:	ca. 1,2 - 1,4 g/cm ³
Bulk density:	600 - 700 kg/m ³
Water solubility:	practically insoluble
Autoignition temperature:	not applicable
Ignition temperature:	> 450 °C
Decomposition temperature:	>= 380 °C
Viscosity, dynamic:	not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Fumes evolved by overheating during improperly processing or by burning may be injurious to health.

Possibility of hazardous reactions: No hazardous reactions observed.

Hazardous decomposition products: Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed.

11. TOXICOLOGICAL INFORMATION

According to our experience and information the product has no harmful effects on health if properly handled.

**SAFETY DATA SHEET**

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

12. ECOLOGICAL INFORMATION

Do not allow to escape into waterways, wastewater or soil.

Additional information on ecotoxicology:

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

14. TRANSPORT INFORMATION

ADG7 - Australia Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

Special precautions for user : Not dangerous cargo.
Keep dry.



SAFETY DATA SHEET

according to GHS

MAKROLON ET3117

Version 1.0

Revision Date 16.01.2013

Print Date 18.01.2013

15. REGULATORY INFORMATION

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

No poison schedule number allocated

16. OTHER INFORMATION

The safety data sheet is also valid for corresponding MAS... types.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
