



**Safety Data Sheet**  
**ALPASTE Emeral (Silica Coated) with BG**  
**Alp EMRxxxxBG**

**Safety Data Sheet dated 18-6-2012, version 1.0**

**In compliance with the requirement of the Regulation (EC) N°1907/2006.**

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

1.1. Product Identifier

Mixture identification:

Trade name:

**ALPASTE Emeral (Silica Coated) with BG**

MSDS Code:

**Alp EMRxxxxBG**

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

Recommended use:

Manufacture of plastics

Manufacture of inks

Metallic paint (for automotive industry and industrial use)

1.3. Details of the supplier of the safety data sheet

Company:

TOYAL EUROPE

Route de Lescun

F-64490 ACCOUS

Telephone (office hours): +33 (0)5 59 98 35 35

Fax:+33 (0)5 59 98 35 36

Competent person responsible for the safety data sheet:

[reach@toyal-europe.com](mailto:reach@toyal-europe.com)

1.4. Emergency telephone number

In case of transport accident or other emergency: Emergency CONTACT (24-Hour-Number):

GBK/Infotrac ID 103679: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500.

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**SECTION 2. HAZARDS IDENTIFICATION**

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Xi Irritant

R Phrases:

R36/38 Irritating to eyes and skin.

EC regulation criteria 1272/2008 (CLP)

Skin Irrit. 2, Causes skin irritation.

Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards.

2.2. Label elements

Symbols:

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#### Warning

#### Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### Precautionary statements:

P264 P264.1

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

#### Special Provisions:

None.

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None.

#### Other Hazards:

No other hazards.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not Relevant.

### 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

60% - 80% aluminium powder (stabilised)

Index number: 013-002-00-1, CAS: 7429-90-5, EC: 231-072-3

F; R11-15

Water-react. 2 H261

Flam. Sol. 1 H228

20% - 40% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve

Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

Xn,Xi; R20/21/22-36/38

Eye Irrit. 2 H319

Skin Irrit. 2 H315

Oral Acute Tox. 4 H302

Dermal Acute Tox. 4 H312

Inhal Acute Tox. 4 H332

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## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.



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In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed  
Not available.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Not available.

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## SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Dry sand

Metal fire powder

Extinguishing media which **must not be** used for safety reasons:

Water

CO<sub>2</sub>

Alcohol foam

Halons

Dry powder

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

In case of contact with acid or alkaline (as well as water), aluminum powder will react and emission of hydrogen will occur.

5.3. Advice for fire-fighters

Use suitable breathing apparatus .

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

6.3. Methods and material for containment and cleaning up

Pick up mechanically.

6.4. Reference to other sections

See also section 8 and 13.

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## SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

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- Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recomened protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep in a dry, cool place.  
Keep in a tightly-closed container in a well-ventilated place.  
Keep container dry  
Keep away from heat and sources of ignition.  
Protect from water  
Keep away from food, drink and feed.  
Incompatible materials:  
Do not store with:  
- Oxidizing agents;  
- Acids;  
- Alkalies;  
- Nitrates;  
- Alcohols;  
- Halogenated hydrocarbons;  
- Halogens  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
None in particular.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

aluminium powder (stabilised) - CAS: 7429-90-5

OEL Type: Germany - LTE: 4 mg/m<sup>3</sup> - Notes: Aluminium metal - inhalable aerosol - DE (DFG)

OEL Type: Germany - LTE: 1.5 mg/m<sup>3</sup> - Notes: Aluminium metal - respirable aerosol - DE (DFG)

OEL Type: France - LTE: 10 mg/m<sup>3</sup> - Notes: Aluminium metal - inhalable aerosol

OEL Type: France - LTE: 5 mg/m<sup>3</sup> - Notes: Aluminium metal - respirable aerosol

OEL Type: Spain - LTE: 10 mg/m<sup>3</sup> - Notes: Aluminium metal - inhalable aerosol

OEL Type: Spain - LTE: 5 mg/m<sup>3</sup> - Notes: Aluminium metal - respirable aerosol

OEL Type: United Kingdom - LTE: 10 mg/m<sup>3</sup> - Notes: Aluminium metal - inhalable aerosol

OEL Type: United Kingdom - LTE: 4 mg/m<sup>3</sup> - Notes: Aluminium metal - respirable aerosol

OEL Type: J - LTE: 2 mg/m<sup>3</sup> - Notes: Aluminium powder - Total dust

OEL Type: J - LTE: 0.5 mg/m<sup>3</sup> - Notes: Aluminium powder - Inhalable dust

TLV TWA: ACGIH 10 mg/m<sup>3</sup> - OSHA 15 mg/m<sup>3</sup>

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

OEL 8h: 98 mg/m<sup>3</sup> - 20 ppm

OEL short: 246 mg/m<sup>3</sup> - 50 ppm

TLV TWA: 20 ppm, A3 - 96,66 mg/m<sup>3</sup>, A3

TLV STEL: A3

DNEL Exposure Limit Values

N.A.

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PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Overall.

Protection for hands:

Suitable gloves type:

EN 420 / EN 374

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None.

Environmental exposure controls:

Not available.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour: Pasty - Silver

Odour: Solvent

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: 660°C (aluminium)

Initial boiling point and boiling range: 2467°C (aluminium)

Solid/gas flammability: IS NOT easily flammable (UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria: Solids - Test N1 - Sub-section 33.2.1.4.)

Upper/lower flammability or explosive limits: Inf 1.1% vol - Sup 12.7% vol (butylglycol)

Vapour density: N.A.

Flash point: 67°C (butylglycol)

Evaporation rate: N.A.

Vapour pressure: < 1 hPa (butylglycol)

Relative density: N.A.

Solubility in water: Insoluble

Lipid solubility: N.A.

Partition coefficient (n-octanol/water): 0.83 (butylglycol)

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

9.2. Other information

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

Substance Groups relevant properties: N.A.

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## SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

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#### 10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with water, mineral acids, organic acids, caustic substances, isocyanates, mercaptans, and other organic sulphides.

It may generate toxic gases on contact with azo, diazo and hydrazines compounds.

It may catch fire on contact with mineral acids, mercaptans and other organic sulphides, and powerful oxidising agents.

In case of contact with acid or alkaline (as well as water), aluminum powder will react and emission of hydrogen will occur.

#### 10.4. Conditions to avoid

Avoid humidity.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

Hydrogen.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information of the main substances found in the mixture:

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 470 mg/kg

Test: LD50 - Route: Oral - Species: Rabbit 320 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 450 Ppm - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit 220 mg/kg

Test: LD50 - Species: Rat 220 mg/kg - Notes: Intraperitoneal

Test: LD50 - Species: Rat 307 mg/kg - Notes: Intravenous

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Notes: Moderate

f) carcinogenicity:

Test: Carcinogenicity - Notes: IARC 3 - Group 3

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## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Ecotoxicological information of the mixture:

N.A.

There is no ecotoxicological data available on the mixture. Consider the individual concentration of each component to assess ecotoxicological effects resulting from exposure to the mixture.

Ecotoxicological information of the main substances found in the mixture:

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Test: LC50 Fish - Duration h: 96 - mg/l: 220

Test: EC50 Daphnia - Duration h: 24 - mg/l: 1815

### 12.2. Persistence and degradability

None.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.



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- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None.
- 12.6. Other adverse effects  
Not available.

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#### SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods  
Recover if possible. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14. TRANSPORT INFORMATION

- 14.1. UN number  
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name  
N.A.
- 14.3. Transport hazard class(es)  
N.A.
- 14.4. Packing Group  
N.A.
- 14.5. Environmental hazards  
Marine pollutant: No.  
N.A.
- 14.6. Special Precautions for User  
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
No.

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#### SECTION 15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work).  
Dir. 2000/39/EC (Occupational exposure limit values)
- Where applicable, refer to the following regulatory provisions:  
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive).
- 15.2. Chemical Safety Assessment  
No.

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#### SECTION 16. OTHER INFORMATION

- Full text of phrases referred to in Section 3:
- R11 Highly flammable.  
R15 Contact with water liberates extremely flammable gases.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/38 Irritating to eyes and skin.
- H261 In contact with water releases flammable gases.  
H228 Flammable solid.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.



## Safety Data Sheet

### ALPASTE Emeral (Silica Coated) with BG

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H332 Harmful if inhaled.

This safety data sheet has been completely updated in compliance with Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

EAPA (European Aluminium Particulate Association)

ECHA CHEM (European Chemicals Agency)

TOXNET (Hazardous Substances Data Bank)

GESTIS International Limit Values (IFA)

ESIS (European chemical Substances Information System) - European Commission/Joint Research Centre/Institute for Health and Consumer Protection

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This document supersedes any previous version.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
EC50:	Median effective concentration.
IATA:	International Air Transport Association.
IMDG:	International Maritime Code for Dangerous Goods.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
N.A.:	Not available
OEL:	Occupational exposure limit.
PBT:	Persistent, Bioaccumulative and Toxic.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
vPvB:	very Persistent and very Bioaccumulative.

End of the safety data sheet.