



Safety Data Sheet

Phosphoric organic coated Aluminium Paste

Alp WXT

Safety Data Sheet dated 01-06-2012, version 1.1

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

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

1.1. Product Identifier

Mixture identification:

Trade name:

Phosphoric organic coated Aluminium Paste

MSDS Code:

Alp WXT

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

Recommended use:

Manufacture of inks

Manufacture of plastics

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

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.

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 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

EC regulation criteria 1272/2008 (CLP)

Eye Irrit. 2, Causes serious eye irritation.

STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards.

2.2. Label elements

Symbols:

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Warning

Hazard statements:

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P264 P264.1

P271 Use only outdoors or in a well-ventilated area.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None.

Other Hazards:

No other hazards.

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% - 75% 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

25% - 40% 1-methoxy-2-propanol; monopropylene glycol methyl ether

REACH No.: 01-2119457435-35-XXXX, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

R10-67; substance with a Community workplace exposure limit

Flam. Liq. 3 H226

STOT SE 3 H336

< 3% 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23-XXXX, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0

Xi; R10-37/38-41-67

Flam. Liq. 3 H226

STOT SE 3 H335

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT SE 3 H336

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< 1% Adhesion agent
Xn,C,N; R20/21/22-35-50
Flam. Liq. 3 H226
Inhal Acute Tox. 4 H332
Eye Dam. 1 H318
Dermal Acute Tox. 4 H312
/Oral Acute Tox. 4 H302
Skin Corr. 1A H314
Aquatic Acute 1 H400

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.

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

None.

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:

None.

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

CO₂

Alcohol foam

Dry powder

Foam fire extinguisher

Halons

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

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Use suitable breathing apparatus .
Move undamaged containers from immediate hazard area if it can be done safely.

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.

SECTION 7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - 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 recommended 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
 - 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters
 - aluminium powder (stabilised) - CAS: 7429-90-5
 - OEL Type: Germany - LTE: 4 mg/m³ - Notes: Aluminium metal - inhalable aerosol - DE (DFG)
 - OEL Type: Germany - LTE: 1.5 mg/m³ - Notes: Aluminium metal - respirable aerosol - DE (DFG)

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OEL Type: France - LTE: 10 mg/m³ - Notes: Aluminium metal - inhalable aerosol
OEL Type: France - LTE: 5 mg/m³ - Notes: Aluminium metal - respirable aerosol
OEL Type: Spain - LTE: 10 mg/m³ - Notes: Aluminium metal - inhalable aerosol
OEL Type: Spain - LTE: 5 mg/m³ - Notes: Aluminium metal - respirable aerosol
OEL Type: United Kingdom - LTE: 10 mg/m³ - Notes: Aluminium metal - inhalable aerosol
OEL Type: United Kingdom - LTE: 4 mg/m³ - Notes: Aluminium metal - respirable aerosol

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

OEL Type: France - LTE: 188 mg/m³, 50 ppm - STE: 375 mg/m³, 100 ppm - Notes: INRS
OEL 8h: 375 mg/m³ - 100 ppm
OEL short: 568 mg/m³ - 150 ppm
TLV TWA: 100 ppm - 368,59 mg/m³
TLV STEL: 150 ppm - 552,88 mg/m³

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

OEL Type: Germany - LTE: 310 mg/m³, 100 ppm - Notes: TRGS - 2003
OEL Type: France, 50 ppm
OEL Type: United Kingdom, 50 ppm, 75 ppm
OEL Type: Spain, 50 ppm
OEL Type: Portugal, 50 ppm
TLV TWA: 50 ppm - 151,57 mg/m³

DNEL Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Industry: 50.6 mg/kg - Exposure: Human Dermal Long Term, systemic effects

PNEC Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Industry: 10 mg/l - Exposure: Environment: Water

Worker Industry: 100 mg/l - Exposure: Environment: Soil

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Workwear

Protection for hands:

Suitable gloves type:

EN 420 / EN 374

Respiratory protection:

Use adequate protective respiratory equipment, e.g. CEN/FFP-2 or CEN/FFP-3.

Thermal Hazards:

None.

Environmental exposure controls:

Not available.

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.

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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 1.7% vol - Sup 13.1% vol (methoxypropanol)
Vapour density:	N.A.
Flash point:	30°C (methoxypropanol)
Evaporation rate:	N.A.
Vapour pressure:	13.3 hPa (methoxypropanol)
Relative density:	1.40-1.80 g/cm ³ (calculated value)
Solubility in water:	Insoluble
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	0.43 (methoxypropanol)
Auto-ignition temperature:	270-290°C (methoxypropanol)
Decomposition temperature:	N.A.
Viscosity:	1.0 mPa.s (dynamic) (methoxypropanol)
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.

SECTION 10. STABILITY AND REACTIVITY

- 10.1. Reactivity
Stable under normal conditions.
- 10.2. Chemical stability
Stable under normal conditions.
- 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.

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:
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Oral - Species: Rabbit 8000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 13500 mg/kg

Higher concentrations will have a sedative effect (drowsiness or dizziness).

Prolonged contact may lead to the skin drying out.

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 2640 mg/kg

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat INF 200 mg/l - Duration: 4h

b) skin corrosion/irritation:

Ingestion may have a sedative effect on the central nervous system.

Strong concentrations may cause headaches, dizziness, behavioural changes, weakness, drowsiness and stupor.

Prolonged or repeated contact with the skin, such as through clothing sprayed with the substance, may cause dermatitis. Symptoms may include redness, oedema, and dryness or cracking of the skin.

Overexposure to Isobutanol is a possible cause of abnormalities in the livers of laboratory animals.

Adhesion agent

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Notes: Ames test

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.

Since no ecotoxicological data about the mixture is available, the concentration of each substance must be considered to assess the ecotoxicological effects resulting from exposure to the mixture.

Toxicological information of the main substances found in the mixture:

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Test: LC50 Fish - Duration h: 96 - mg/l: 1000

Test: EC50 Daphnia - Duration h: 48 - mg/l: 500

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Test: LC50 Fish - Duration h: N.A. - mg/l: 1000

Test: EC50 Daphnia - Duration h: N.A. - mg/l: 100-1000

Adhesion agent

Test: LC50 Fish - Duration h: 96 - mg/l: 4.73-5.7

12.2. Persistence and degradability

None.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

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vPvB Substances: None - PBT Substances: None.

- 12.6. Other adverse effects
None.

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.

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.

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.

SECTION 16. OTHER INFORMATION

- Full text of phrases referred to in Section 3:
- R10 Flammable.
 - R11 Highly flammable.
 - R15 Contact with water liberates extremely flammable gases.
 - R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 - R35 Causes severe burns.
 - R37/38 Irritating to respiratory system and skin.
 - R41 Risk of serious damage to eyes.
 - R50 Very toxic to aquatic organisms.
 - R67 Vapours may cause drowsiness and dizziness.
- H261 In contact with water releases flammable gases.
H228 Flammable solid.

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H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

Paragraphs modified from the previous revision:

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
16. OTHER INFORMATION

MSDS Code Alp WXT = ALPATE WXT Fxxx, WXT MG1200, WXT 1588, WXT 6370, WXT 76xx, WXT SD80, WXT 637A, WXT 81xx

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.



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End of the safety data sheet.