



Safety Data Sheet

ALUMINIUM PASTE WITH MINERAL SPIRIT AND NAPHTHA SOLVENT

Code MSDS Alp WS/N

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:

**ALUMINIUM PASTE WITH MINERAL SPIRIT AND
NAPHTHA SOLVENT**

MSDS Code:

Alp WS/N

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

Recommended use:

Metallic paint (for automotive industry and industrial use)

Manufacture of inks

Manufacture of plastics

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:

None.

R Phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

EC regulation criteria 1272/2008 (CLP)

STOT SE 3, May cause drowsiness or dizziness.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards.

2.2. Label elements

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Symbols:



Warning

Hazard statements:

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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% - 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

10% - 30% Naphtha (petroleum), hydrotreated heavy

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119463258-33-0009, CAS: 64742-48-9

Xn; R10-65-66-67

Flam. Liq. 3 H226

STOT SE 3 H336

Asp. Tox. 1 H304

5% - 20% Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35-XXXX, CAS: 64742-95-6

Xn,Xi,N; R10-37-51/53-66-67-65

Flam. Liq. 3 H226

STOT SE 3 H335

STOT SE 3 H336

Aquatic Chronic 2 H411

Asp. Tox. 1 H304



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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

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

Dry powder

Alcohol foam

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

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.



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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 recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in well-ventilated areas.

Store in a dry and cool 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)

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

Naphtha (petroleum), hydrotreated heavy

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

OEL Type: France - LTE: 1000 mg/m³ - STE: 1500 mg/m³ - Notes: Vapors C6-C12

OEL Type: Germany - LTE: 300 mg/m³, 50 ppm - Notes: DE (DFG)

Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

OEL Type: France - LTE: 150 mg/m³ - Notes: Vapors C9-C12 (aromatics)

DNEL Exposure Limit Values

Naphtha (petroleum), hydrotreated heavy

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

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Worker Industry: 208 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal Long Term, systemic effects

Worker Industry: 871 mg/m³ - Consumer: 185 mg/m³ - Exposure: Human Inhalation Long Term, systemic effects

Consumer: 125 mg/kg - Exposure: Human Oral Long Term, systemic effects

Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

Worker Industry: 25 mg/kg - Worker Professional: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal Long Term, systemic effects

Worker Industry: 150 mg/m³ - Worker Professional: 150 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation Long Term, systemic effects

Consumer: 11 mg/kg - Exposure: Human Oral Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Coat.

Overall.

Protection for hands:

Suitable gloves type:

EN 420 / EN 374

Suitable material:

Cotton

Leather

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.

pH: N.A.

Melting point / freezing point: - 20°C (naphtha heavy) - 660°C (aluminium)

Initial boiling point and boiling range: 130 - 210°C (naphtha) - 2467°C (aluminium)

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: Mini: 0.6% - Maxi: 7% (naphtha)

Vapour density: N.A.

Flash point: > 35°C (naphtha - closed cup)

Evaporation rate: N.A.

Vapour pressure: 0.3 - 0.6 kPa (naphtha heavy)

Relative density: 0.75 - 0.95 g/cm³ (naphtha - 15°C)

Solubility in water: Insoluble (naphtha heavy)

Lipid solubility: N.A.

Partition coefficient (n-octanol/water): N.A.

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Auto-ignition temperature:	> 200°C (naphtha)
Decomposition temperature:	N.A.
Viscosity:	0.0009 cm ² /s (naphtha heavy - 40°C)
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 mineral acids.

It may catch fire on contact with mineral acids, azo, diazo and hydrazine compounds, halogenated organic substances, 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

Moisture.

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:

Naphtha (petroleum), hydrotreated heavy

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Duration: 24H - Notes: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 5000 mg/m³ - Duration: 8h - Notes: OECD 403 - Vapors

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: GUINEA Negative

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Generic Bacteria Negative

f) carcinogenicity:

Test: Carcinogenicity - Route: Inhalation - Species: Rat Negative



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g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Negative

Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3492 mg/kg - Notes: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Duration: 24H - Notes: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m³ - Notes: OECD 403

e) germ cell mutagenicity:

Test: Mutagenesis Negative

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Naphtha (petroleum), hydrotreated heavy

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics - CAS: 64742-48-9

Test: EL50 Daphnia - Duration h: 48 - mg/l: 1000

Test: LL50 Fish - Duration h: 96 - mg/l: 1000

Test: EL50 Algae - Duration h: 72 - mg/l: 1000

Test: NOEL Daphnia - Duration h: 21 j - mg/l: 0.23

Test: NOEL Fish - Duration h: 28 j - mg/l: 0.13

Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

Test: EL50 BACTERIA - Duration h: 48 - mg/l: 3.2

Test: LL50 Fish - Duration h: 96 - mg/l: 9.2

Test: EL50 Algae - Duration h: 72 - mg/l: 2.9

Test: NOEL Daphnia - Duration h: 21 j - mg/l: 2.14

Test: NOEL Fish - Duration h: 28 j - mg/l: 1.23

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

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



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- 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
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.
R37 Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
- H261 In contact with water releases flammable gases.
H228 Flammable solid.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Paragraphs modified from the previous revision:

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

MSDS Code Alp WS/N = ALPATE 501, 1165, 1167, 1588, 1637, 1638, 2004033, 2004034, 2005053, 2006009, 2006014, 2009001, 56xx NSE, 5660 NS, 58320, 7160 N, 7160 N-AM, 7160 NE,



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7550 NS, 7580 NS, 7601 NP, 76xx NSJ, 7620 NSI, 76xx NS, 7640 NST, 7649 NSE, 7679 NSE, 7626 NSE, 81xx N AR, 8160 CC, 8160 NI AR, 8170 E, 8230 N AR, 8565 YF AR, 88037, 88050, 8860 YF AR, 89028, 89031, 91027, 93001, 97029, A 115, CS xxx, , F xxx, SD xx, TE 7646 NS, TSB 2044 A, XI 1227, XI 1227 M, 7679 NSE, 7626 NSE

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