	SAFETY DATA SHEET	Page : 1 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation : ALUMINIUM PASTE UV4
Product code : R280, 02, 04, Z/04, 06, 08, 880, 880, 8880, 8980, 024, 030, 032, 76000, 80000, 80000/A, 90000/A, 30/Z, 40/Z, 80/Z, A8, A88, A888, Silver
Imitation* / UV4 / 66-34
* = also valid for leafing (L) and non-leafing (NL)

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

Main use category : Industrial uses, Professional uses .

1.3. Details of the supplier of the safety data sheet

Company : AVL METAL POWDERS n.v.
Elleboogstraat 7
B-8500 Kortrijk , Belgium, Europe
Telephone +32 (0)56 22 00 21
Telefax: +32 (0)56 22 64 14
E-mail: sales@avlmetalpowders.com
Website: www.avlmetalpowders.com
VAT: BE 0405 375 371 - RPR Kortrijk

1.4. Emergency telephone number

Emergency telephone : +32 (0)475 38 36 83 (This telephone number is available 24 hours per day, 7 days per week.)

IRELAND (REPUBLIC OF)

National Poisons Information Centre
Beaumont Hospital

+353 18 37 99 64/+353 1 809 21 66

UNITED KINGDOM

National Poisons Information Service
(Newcastle Centre)
Regional Drugs and Therapeutics Centre,
Wolfson Unit

0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Aquatic Acute 1 H400

Full text of H-phrases: see section 16


2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : This mixture is classified as hazardous according to 1999/45/EC.
N; R50

Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

	SAFETY DATA SHEET	Page : 2 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Hazard pictograms :



GHS09

Signal word : Warning
Hazard statements : H400 - Very toxic to aquatic life.
Precautionary statements : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/ container to an approved waste disposal plant.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards : PBT/vPvB data
Not applicable
In dry state:
Risk of dust explosion.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable


3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Aluminium (1)	(CAS No.) 7429-90-5 (EC No) 231-072-3 (EC Index) 013-002-00-1 (REACH-no) 01-2119529243-45-0146, 01-2119529243-45-XXXX	66	F; R11
Alcohols, C11-14-iso-, C13-rich	(CAS No.) 68526-86-3 (EC No) 271-235-6 (REACH-no) 01-2119454259-32-XXXX	29,5	N; R50
2-phenoxyethyl acrylate	(CAS No.) 48145-04-6 (EC No) 256-360-6 (EC Index) -	4,5	Xi; R36/38

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium (1)	(CAS No.) 7429-90-5 (EC No) 231-072-3 (EC Index) 013-002-00-1 (REACH-no) 01-2119529243-45-0146, 01-2119529243-45-XXXX	66	Flam. Sol. 1, H228
Alcohols, C11-14-iso-, C13-rich	(CAS No.) 68526-86-3 (EC No) 271-235-6 (REACH-no) 01-2119454259-32-XXXX	29,5	Aquatic Acute 1, H400
2-phenoxyethyl acrylate	(CAS No.) 48145-04-6 (EC No) 256-360-6 (EC Index) -	4,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of R- and H-phrases: see section 16

Comments : (1) The substance or mixture does not emit flammable gases in contact with water.
UN Test N.5: Test method for substances which in contact with water emit flammable gases
(Note T : This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the

	SAFETY DATA SHEET	Page : 3 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Provide fresh air. Keep at rest. When in doubt or if symptoms are observed, get medical advice.
Skin contact	: Remove contaminated clothing and shoes. Wash with plenty of water/. When in doubt or if symptoms are observed, get medical advice. Wash contaminated clothing before reuse.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
In case of ingestion	: Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting Get medical advice/attention.
Additional advice	: First aider: Pay attention to self-protection! See also section 8 Treat symptomatically. Show this safety data sheet to the doctor in attendance. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Inhalation of vapours in high concentration may cause irritation of respiratory system.
Skin contact	: May be irritating. The following symptoms may occur: erythema (redness).
Eye contact	: Dust contact with the eyes can lead to mechanical irritation. The following symptoms may occur: erythema (redness), Tears.
Ingestion	: May be irritating.
Other adverse effects	: none.

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

No data available


SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Special powder against metal fire . Dry sand . ABC-powder . Co-ordinate fire-fighting measures to the fire surroundings.
Extinguishing media which must not be used for safety reasons:	: Water Foam

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non-flammable.
Specific hazards	: In dry state: Dust may form explosive mixture in air. Burning produces noxious and toxic fumes. Hazardous decomposition products

	SAFETY DATA SHEET	Page : 4 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Do not allow run-off from fire-fighting to enter drains or water courses.
Dispose according to legislation.

5.3. Advice for firefighters

Advice for firefighters

- : Special protective equipment for firefighters.
- In case of fire: Wear self-contained breathing apparatus.
- Cool closed containers exposed to fire with water spray
- Evacuate area.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- : Evacuate area.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8
- Avoid contact with skin, eyes and clothes.
- Avoid generation of dust.
- Do not breathe vapours/dust.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Take precautionary measures against static discharges.

For emergency responders

- : Ensure procedures and training for emergency decontamination and disposal are in place.
- Personal protection equipment: see section 8.

6.2. Environmental precautions

Environmental precautions

- : Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

- : Stop leak if safe to do so.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Collect in closed and suitable containers for disposal.
- Dispose according to legislation.
- Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.4. Reference to other sections

Personal protection equipment: see section 8


Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

- : Use only in well-ventilated areas.
- Provide adequate ventilation.
- Use personal protective equipment as required.
- Personal protection equipment: see section 8 .
- Avoid contact with skin, eyes and clothes.
- Avoid generation of dust.
- Do not breathe vapours/dust.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Take precautionary measures against static discharges.
- Take any precaution to avoid mixing with incompatible materials.
- See also section 10

	SAFETY DATA SHEET	Page : 5 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Advices on general occupational hygiene : Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
Do not allow to enter into surface water or drains.
: Keep good industrial hygiene.
When using do not eat, drink or smoke.
Wash hands before breaks and immediately after using the product.
Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep container tightly closed in a cool, well-ventilated place.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protect from moisture.
Do not store near or with any of the incompatible materials listed in section 10.
Maximum storage period (time) :
3 months.

Packaging materials : Keep/Store only in original container.

7.3 Specific end use(s)


No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

Aluminium (7429-90-5)		
Austria	MAK (mg/m ³)	10 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	20 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	10,0 mg/m ³ (metal dust) 1,5 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
France	VME (mg/m ³)	10 mg/m ³ (metal) 5 mg/m ³ (dust)
Greece	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable fraction)
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (dust)
Switzerland	VME (mg/m ³)	3 mg/m ³ (respirable)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10,0 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ (dust, fume and powder, total) 2 mg/m ³ (dust and powder, respirable)
Hungary	AK-érték	6 mg/m ³ (respirable dust)
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	3 mg/m ³ (calculated-respirable dust)

	SAFETY DATA SHEET	Page : 6 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Aluminium (7429-90-5)		
Lithuania	IPRV (mg/m ³)	5 mg/m ³ (inhalable fraction) 2 mg/m ³ (respirable fraction) 1 mg/m ³
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	5 mg/m ³ (pyrotechnical-powder)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	10 mg/m ³ (pyrotechnical-powder)
Poland	NDS (mg/m ³)	2,5 mg/m ³ (inhalable fraction) 1,2 mg/m ³ (respirable fraction)
Romania	OEL TWA (mg/m ³)	3 mg/m ³ (dust) 1 mg/m ³ (fume)
Romania	OEL STEL (mg/m ³)	10 mg/m ³ (powder) 3 mg/m ³ (fume)
Slovakia	NPHV (priemerná) (mg/m ³)	1,5 mg/m ³ (metal) 6 mg/m ³ (total aerosol)
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (total dust) 2 mg/m ³ (respirable dust)

Recommended monitoring procedures : Concentration measurement in air
Personal air monitoring

8.2. Exposure controls

Personal protection equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Half-face mask (DIN EN 140)
Full face mask (EN 136)
Filter type: A/P (EN 141)

Hand protection : The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. Wear chemically resistant gloves (tested to EN374) „NBR (Nitrile rubber)


Eye protection : Safety glasses (EN 166) Safety glasses with side-shields (EN 166)

Body protection : Wear suitable protective clothing.

Thermal hazard protection : Not required under normal use.

Engineering control measures : Provide adequate ventilation.
Use only in area provided with appropriate exhaust ventilation.
A washing facility/water for eye and skin cleaning purposes should be present.
Ensure that the equipment is adequately grounded.
Take precautionary measures against static discharges.
Organisational measures to prevent/limit releases, dispersion and exposure
See also section 7

Environmental exposure controls : Do not allow to enter into surface water or drains.
Comply with applicable Community environmental protection legislation.

	SAFETY DATA SHEET	Page : 7 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Paste
Colour	: silver
Odour	: characteristic
Odour threshold:	: No data available
pH	: Not applicable
Melting point/freezing point	: 620 °C aluminium
Initial boiling point and boiling range	: 2500 °C aluminium 250 - 270 °C Solvent
Flash point	: > 110 °C Solvent
Evaporation rate	: < 0,01 (n-butyl acetate = 1)
Flammability (solid, gas)	: Non-flammable.
Upper/lower flammability or explosive limits	: LEL: 0,4 vol % Solvent UEL: 6 vol % Solvent
Vapour pressure	: (25°C) < 0,001 kPa Solvent
Vapour density	: > 1 (Air = 1.0) Solvent
Density	: (Al) 2 kg/l bulk (20°C) 845 kg/m ³ Solvent
Water solubility	: Insoluble
Solubility in different media	: No data available
Partition coefficient n-octanol/water	: 5,4 Solvent
Auto-ignition temperature	: > 250 °C Solvent
Decomposition temperature	: No data available
Viscosity	: (25°C) 48 mm ² /s Solvent
Explosive properties	: Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity


Reactivity	: None under normal processing. Reference to other sections: 10.5
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10.2. Chemical stability

Stability	: The product is stable under storage at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	: In contact with water releases flammable gases. In dry state:
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	SAFETY DATA SHEET	Page : 8 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Risk of dust explosion.
Reference to other sections: 10.4 & 10.5

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Avoid generation of dust.
See also section 7
Handling and storage

10.5. Incompatible materials

Incompatible materials : Oxidising substances,, Strong acids,, Strong bases,, Halogens,, Halogenated compounds, See also section 7, Handling and storage

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous decomposition products formed under fire conditions.
Reference to other sections: 5.2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Alcohols, C11-14-iso-, C13-rich (68526-86-3)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Serious eye damage/eye irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)


Other information

Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections: 4.2

SECTION 12: Ecological information

12.1. Toxicity

Toxicity : Very toxic to aquatic life.

	SAFETY DATA SHEET	Page : 9 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Alcohols, C11-14-iso-, C13-rich (68526-86-3)	
LC50 fish 1	0,42 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	0,71 mg/l (48h)
EC50 96h algae [mg/l] (1)	172,2 mg/l (Species: Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

Persistence and degradability : Solvent
Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation : Solvent
Low potential
Partition coefficient n-octanol/water : 5,4 Solvent

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : PBT/vPvB data
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Other information :

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product waste: : Handle with care.
Safe handling: see section 7
Handling and storage
Collect and dispose of waste product at an authorised disposal facility.
Refer to manufacturer/supplier for information on recovery/recycling.
If recycling is not practicable, dispose of in compliance with local regulations.
Dispose according to legislation.

Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.
Empty containers should be taken to local recyclers for disposal.
Do not burn, or use a cutting torch on, the empty drum.
Do not puncture or incinerate.

Further ecological information : Do not allow to enter into surface water or drains.

List of proposed waste codes/waste designations in accordance with EWC : Classified as hazardous waste according to European Union regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.


SECTION 14: Transport information

14.1. UN number

UN number : 3077

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Alcohols, C11-14-iso-, C13-rich)

	SAFETY DATA SHEET	Page : 10 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Proper shipping name IATA/IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alcohols, C11-14-iso-, C13-rich)

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class(es) : 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.) : 90
Classification code : M7
ADR/RID-Labels : 9 - Miscellaneous dangerous substances and articles



14.3.2. Inland waterway transport (ADN)

ADN : Not classified for this transport way.
Class (UN) : 9

14.3.3. Transport by sea

Class or Division :

14.3.4. Air transport

Class or Division :

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Environmental hazards : N



Other information : No supplementary information available.

14.6. Special precautions for user

Special precautions for user : Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : Not applicable.


SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006 :

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 : Alcohols, C11-14-iso-, C13-rich

	SAFETY DATA SHEET	Page : 11 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F : Aluminium

3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

Hazard class 4.1 : ALUMINIUM PASTE UV4

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : Aluminium

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : none

Authorisations : Not applicable

15.1.2. National regulations

DE : WGK : 2
 NL : ABM : 5 - Very toxic to aquatic organisms (B)

15.2. Chemical safety assessment

Chemical Safety Assessment : For the following substances of this preparation a chemical safety assessment has been carried out:
 aluminium
 Alcohols, C11-14-iso-, C13-rich


SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Aquatic Acute 1 : Hazardous to the aquatic environment - Aquatic Acute 1
 Eye Irrit. 2 : Serious eye damage/eye irritation Category 2
 Flam. Sol. 1 : Flammable solids, Hazard Category 1
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2
 H228 : Flammable solid.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.
 H400 : Very toxic to aquatic life.
 R11 : Highly flammable.
 R36/38 : Irritating to eyes and skin.
 R50 : Very toxic to aquatic organisms.
 F : Highly flammable
 N : Dangerous for the environment
 Xi : Irritant

Key literature references and sources for data : European Metal Particulate Association (EMPA)
 Supplier SDS

Other information : CLP, Article 9; Calculation method.

	SAFETY DATA SHEET	Page : 12 / 12
	ALUMINIUM PASTE UV4	Revision nr : 2
		Issue date : 09/03/2015
		Supersedes : 09/07/2014

Abbreviations and acronyms

: ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
EWC = European Waste Catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
NOELR = No observed effect loading rate
NA = Not applicable
Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PBT = persistent, bioaccumulating and toxic (PBT).
STEL = Short term exposure limit
TWA = time weighted average
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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