



Silica coated aluminium paste with methoxypropanol solvent (Alp EMR/PM)

Version: 6

Version date: 24/11/2022

Language: EN

In accordance with Regulation (EC) No 1907/2006 (amended by Regulation (EU) No 2020/878)

Safety Data Sheet

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

1.1 Product identifier

Trade name/designation : Silica coated aluminium paste with methoxypropanol solvent.
Article No (user) : Alp EMR/PM.
Name of the grades :
EMR-DF580, EMR-D5660, EMRD5660H, EMR-DF560, EMR-DF550,
EMR-DF540, EMR-D-125, EMR-DF520, EMR-D5422, EMR-D3040,
EMR-DZ485, EMR-DZ510, EMR-D4690, EMR-D6390, EMR-D6250,
EMR-D7680, EMR-D7678, EMR-D767E, EMR-D764E, EMR-D7623,
EMR-D762E, EMR-D761E, EMRD761EH, EMR-DSD80, EMR-DF798,
EMR-D8880, EMR-D8188, EMR-D8180, EMRD161H, EMR-D-161,
EMR-D8130, EMR-D8110, EMRD1227H, EMR-D1227, EMR-DM12A,
EMR-DM1100, EMR-DM1250, EMR-B-125, EMR-B-161, EMR-B7630.

UFI : KE00-00HP-800K-HG9U
DH00-H072-K002-5TVW
PK00-00WF-V00K-U5FY

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

Relevant identified uses : Coatings, Inks, Packaging, Plastics.
Uses advised against : No use against-indicated identified.

1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** TOYAL EUROPE
Street: Route de Lescun
Postal code/City: 64490 ACCOUS
Country: France
Telephone: +33 (0)5 59 98 35 35
Telefax: +33 (0)5 59 98 35 36
E-mail: cathy.berguery@toyal-europe.com

1.4 Emergency Telephone Number

United Kingdom:

In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

For information in case of transport accidents and other emergencies: Emergency contact (1h/2) GBK/Infotrac 3: International (4) 5 6 7.



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2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP] :

Hazards identification:

H228	Flam. Sol. 1	Flammable solid.
H336	STOT SE 3 H336	May cause drowsiness or dizziness

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] :

Hazard pictograms



Signal word

Danger

Hazard Statements

H228	Flammable solid.
H336	May cause drowsiness or dizziness

Precautionary Statements - Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

P312	Call a POISON CENTRE/doctor/... if you feel unwell.
P370+P378	In case of fire: Use powder to extinguish.

Precautionary Statements - Disposal

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations
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Contains

1-methoxypropan-2-ol

2.3 Other hazards

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

According to Regulation (EU) 1907/2006, no substance is assessed as PBT or vPvB.



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3 Composition/information on ingredients

3.1 Substance

The product is a mixture. See section 3.2.

3.2 Mixtures

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits*	Classification	Notes
aluminium powder (stabilised)				
N°CAS 7429-90-5	35.0% ≤ C ≤ 75.0%		Flam. Sol. 1: H228 Flammable solid. Water-react. 2: H261 In contact with water releases flammable gases.	
N°EC 231-072-3				
N°IDX 013-002-00-1				
N° REACH 01-2119529243-45-0203				
1-methoxypropan-2-ol				
N°CAS 107-98-2	20.0% ≤ C ≤ 60.0%		Flam. Liq. 3 : H226 Flammable liquid and vapour. STOT SE 3: H336 May cause drowsiness or dizziness	
N°EC 203-539-1				
N°IDX 603-064-00-3				
N° REACH 01-2119457435-35-XXXX				
silicon dioxide [1]				
N°CAS 7631-86-9	2.0% ≤ C ≤ 20.0%			[1]
N°EC 231-545-4				
N°IDX				

[1] Substance for which maximum workplace exposure limits are available.

* Specific concentration limits (SCL), M-factor and acute toxicity estimate (ATE), if available, set according to CLP 1272/2008.

Remark

Text phrases and H- EUH-: see section 16.

According to the European Nanomaterials Observatory and the knowledge of the product, no nanomaterials were identified.



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4 First aid measures

4.1 Description of first aid measures

General information:

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Remove the affected person from the danger zone and lay down.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.
No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.

Following skin contact:

Wash with soap and water. In case of skin irritation, consult a physician. Remove contaminated, saturated clothing immediately.

Following eye contact:

In case of eye irritation consult an ophthalmologist.
Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Seek medical advice immediately. Do NOT induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection!
United Kingdom: In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

For information on transport accidents and other emergencies: Emergency Contact (24 hours) GBK/Infotrac ID 103679: international(001) 352 323 3500.

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

Notes for the doctor:

Treat symptomatically.

Special treatment:

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing media



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Suitable extinguishing media:

Carbon dioxide (CO₂). Dry powder extinguishing for metal (D). Dry sand. ABC-powder.

Unsuitable extinguishing media:

Water. Mousse anti-alcool, Halocarbures.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of contact with an acid or a base (or with water), aluminum powders react and potentially create hydrogen.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

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

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

Remove persons to safety.

Provide adequate ventilation.

Use appropriate respiratory protection.

Remove all sources of ignition.

Evacuate area.

6.2 Environmental precautions

Ensure that waste is collected and contained.

Avoid release to the environment.

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

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Ventilate affected area.



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Clean mechanically.

Use an absorbent material such as: absorbing material, organic material, sand.

6.4 Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

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7 Handling and Storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Take off contaminated clothing. When using do not eat or drink.

Do not smoke.

Protect from direct sunlight. Use only outdoors or in a well-ventilated area.

Use explosion-proof electrical/ventilating/lighting/.../equipment.

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Use only in well-ventilated areas.

Provide adequate ventilation as well as local exhaust at critical locations.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Dust should be exhausted directly at the point of origin.

Avoid breathing dust.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Work in well ventilated zones or use proper respiratory protection.

Do no eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation of the storage area. Keep in a cool, well-ventilated place. Storage recommendation to the maximum temperature of 35 °C.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/.../equipment.

Store in a well-ventilated place. Keep away from heat. Store protected from moisture.

Prevent contact with water.

Do not store with oxidizing agents, acids and bases, nitrates, alcohols, halogenated hydrocarbons and halogens.

Keep in a cool, well-ventilated place.

Keep container tightly closed and in a well ventilated place.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

Keep away from clothing and other combustible materials.

Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

7.3 Specific end uses



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No particular use.

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8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

Substance	Value	Unit	Type
silicon dioxide CAS: 7631-86-9 (GB)	6	mg/m ³	Exposure limit (8 hours)
aluminium powder (stabilised) CAS: 7429-90-5 (GB)	4	mg/m ³	Exposure limit (8 hours)
aluminium powder (stabilised) CAS: 7429-90-5 (GB)	10	mg/m ³	Exposure limit (8 hours)
1-methoxypropan-2-ol CAS: 107-98-2 (GB)	560	mg/m ³	Exposure limit (15 minutes)
1-methoxypropan-2-ol CAS: 107-98-2 (GB)	150	ppm	Exposure limit (15 minutes)
1-methoxypropan-2-ol CAS: 107-98-2 (GB)	375	mg/m ³	Exposure limit (8 hours)
1-methoxypropan-2-ol CAS: 107-98-2 (GB)	100	ppm	Exposure limit (8 hours)

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2 Exposure controls

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Local ventilation may be necessary to prevent airborne contaminants exceed their exposure limits.

Personal protection equipment:



Eye/face protection

: Suitable eye protection:



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Skin protection

Use only outdoors or in a well-ventilated area. Eye glasses with side protection.

Hand protection:

Suitable gloves type:
Wear waterproof gloves and chemical resistant. Protective gloves in accordance with EN420 or EN374 minimum. Gloves must be changed after every contamination or degradation. Wear protective gloves.

Suitable material:
Cotton, Leather.

Additional hand protection measures:
Do not wear gloves near machines and rotating tools. Use gloves only once.

Remark:
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection

Body protection:

Suitable protective clothing:
Wear protective clothing.

Respiratory protection necessary at:
Wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable masks should be worn. Suitable masks should be worn if exposed to concentrations exceeding the permissible exposure limits. Respiratory protection in accordance with EN149 minimum.

Suitable respiratory protection apparatus:
Respiratory filter: FP2/FFP3 (EN149: 2001).

Remark:
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits as specified by the manufacturer. Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Not available



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9.1 Information on basic physical and chemical properties

Physical state	: Past Solid
Colour	: Silver Grey
Odour	: Solvant
Odour threshold	: Not Available
pH	: Not available
Melting point/freezing point	: 660 ° C (aluminium)
Initial boiling point and boiling range	: 2467 ° C (aluminium).
Flash point	: 30 ° C (méthoxypropanol).
Flammability	: The Product Is Easily Flammable Test After Test N1 - Sub-section 33.2.1.4. (recommendations On The Transport Of Dangerous Good, Manual Of Tests And Criteria: Solids). According To Regulation (ec) No. 440/2008 According To Ec Method A.10 (flammable Solids)
Upper/lower flammability or explosive limits	: Not Applicable
Vapour pressure	: 13.3 Hpa (methoxypropanol)
Vapour density	: Not Applicable
Relative density	: 1.40-1.80 G/cm 3 (calculé)
Solubility(ies)	: Insoluble.
Partition coefficient: n-octanol/water (Log KOC)	: Not Available
Auto-ignition temperature	: 270-290 ° C (methoxypropanol)
Decomposition temperature	: Not Applicable
Viscosity	: 1.0 Mpa.s (dynamic) (methoxypropanol)
Explosive properties	: Not Applicable
Oxidising properties	: Not available
Solubility in other Solvents	: Not available
Log Kow	: Not available
Particle characteristic	: Not available

9.2 Other safety information

Not available

10 Stability and Reactivity

10.1 Reactivity

No reaction under normal conditions of use and storage.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions



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It may generate flammable gases in contact with water, mineral acids, organic acids, caustic substances, isocyanates, mercaptans and other organic sulphides. It may generate toxic gases in contact with azoic combinations, diazo and hydrazines. May ignite on contact with mineral acids, mercaptans and other organic sulphides, and powerful oxidising agents.

10.4 Conditions to avoid

Keep away from moisture.

10.5 Incompatible materials

Avoid contact with oxidizing substances: the product could catch fire.

10.6 Hazardous decomposition products

In case of contact with an acid or a base (or with water), aluminum powders react and potentially create hydrogen.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Data for mixture:

Not available

Substances:

• 1-methoxypropan-2-ol (CAS: 107-98-2):

Species : Rat
Sex : Not available
Guideline : Not available

Subendpoint	Operator	Value	Unit
LD50:	>	5000	mg/kg bw

Conclusion : Not available

Acute dermal toxicity

Data for mixture:

Not available

Substances:

• 1-methoxypropan-2-ol (CAS: 107-98-2):

Species : Rabbit
Sex : Not available
Guideline : Not available
Exposure duration/value : Not available
Exposure duration/unit : Not available

Subendpoint	Operator	Value	Unit
LD50:	=	135000	mg/kg bw

Conclusion : Not available

Acute inhalation toxicity



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Data for mixture:

Not available

Substances:

• 1-methoxypropan-2-ol (CAS: 107-98-2):

Species : Rat
Sex : Not available
Guideline : Not available
Route of administration : Not available
Exposure duration/value : Not available
Exposure duration/unit : Not available

Subendpoint	Results/Sex	Operator	Value	Unit
LC50:		=	6	mg/L

Conclusion : Not available

Skin corrosion/irritation

Data for mixture:

Not available

Substances:

Not available

Serious eye damage/irritation

Data for mixture:

Not available

Substances:

Not available

Skin sensitisation

Data for mixture:

Not available

Substances:

Not available

Specific target organ toxicity (repeated exposure)

Data for mixture:

Not available

Substances:

Not available

Specific target organ toxicity (single exposure)

Data for mixture:

Not available

Substances:

Not available

Carcinogenicity

Data for mixture:



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Not available

Substances:

Not available

Reproductive toxicity

Data for mixture:

Not available

Substances:

Not available

Germ cell mutagenicity

Data for mixture:

Not available

Substances:

Not available

Sensitisation to the respiratory tract

Data for mixture:

Not available

Substances:

Not available

11.2 Information on other hazards

Endocrine disruptor properties:

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

Other information:

No data available.

12 Ecological information

12.1 Toxicity

Use the product is not released into the wild.

Data for mixture:

Not available

Substances:

Acute aquatic toxicity:

• 1-methoxypropan-2-ol (CAS: 107-98-2):

Animals/category	:	Fish
Species	:	Not available
Test duration	:	96
Unit	:	h
Guideline	:	Not available



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Subendpoint	Value	Unit
LC50:	1000	mg/L

Remarks : Not available

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

Animals/category : Fish
Species : Not available
Test duration : 96
Unit : h
Guideline : Not available

Subendpoint	Value	Unit
LC50:	2.6	mg/L

Remarks : Not available

12.2 Persistence and degradability

Data for mixture:

Not available

Substances:

Not available

12.3 Bioaccumulative potential

Data for mixture:

Not available

Substances:

• **1-methoxypropan-2-ol (CAS: 107-98-2):**

Species : Does not show bioaccumulation. Log P octanol/water (20°C) : 0.43
Guideline : Not available
Log Kow : Not available

Bioconcentration factor (BCF)

Remarks : Not available

12.4 Mobility in soil

Data for mixture:

Not available

Substances:

Not available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.



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12.7 Other adverse effects

No data available.

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13 Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal:

Waste codes/waste designations according to EWC/AVV:

No data.

Properties of waste which render it hazardous:

Flammable Solid. Harmful.

Waste treatment options:

Send to a hazardous waste incinerator or to a processing unit for physico-chemical agents under the control of the official regulatory bodies. Dispose in accordance with local and national regulations. The allocation of waste identification numbers and their descriptions must be in compliance with the EEC.

Appropriate disposal/Product:

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Dispose of waste according to applicable legislation.

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14 Transport information

	Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO-TI/IATA-DGR):
14.1 UN number:	1325	1325	1325	1325
14.2 UN proper shipping name:	FLAMMABLE ORGANIC SOLID, N.O.S.	FLAMMABLE ORGANIC SOLID, N.O.S.	FLAMMABLE ORGANIC SOLID, N.O.S.	FLAMMABLE ORGANIC SOLID, N.O.S.
14.3 Transport hazard class(es):				
Class or Division:	4.1	4.1	4.1	4.1



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	Hazard label(s):				
14.4	Packing group:	II	II	II	II

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime bulk transport according to IMO instruments

Not applicable

15 Regulatory information

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

15.2 Chemical Safety Assessment

No risk assessment was performed.

16 Other information

Indication of changes

Section 1.4 : Keep the emergency numbers of the Member State where the SDS is distributed.

Section 2.3 : Regulatory update of the substance "2-butoxyethanol.

Section 2.3 : Information on Endocrine Disruptors, PBT, vPvB.

Section 3.3: Information on nanomaterials.

Section 8.1 : Modification of the OELs according to the Member State in which the SDS is distributed.

Section 11.13 : Information on Endocrine Disruptors.

Section 12.6 : Information on Endocrine Disruptors.

Section 12.7: Information on Other Adverse Effects.



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Section 12.8: Other information.

Abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.
ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.
CAS: Chemical Abstract Service Number.
CLP: Classification, labeling and packaging.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods Code.
DPD Dangerous Preparation Directive.
UN number: United Nations number.
No EC: European Commission Number.
VPvB: very persistent and very bioaccumulative substances.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
NA: Not available.
PBT: persistent, bioaccumulative, toxic substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flam. Liq. 3	Flammable liquid and vapour.
H228	Flam. Sol. 1	Flammable solid.
H261	Water-react. 2	In contact with water releases flammable gases.
H336	STOT SE 3 H336	May cause drowsiness or dizziness

Training advice

Not available

Additional information

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The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.