

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

1.1 Product identifier

Trade name: PURE WALL Aerosol

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

Application of the substance / the mixture coating agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Mursall Active Coating GmbH

Löwensternstraße 4

5411 Oberalm, Austria

Tel. +43 6245 21811

Further information obtainable from:

Robert Kummerer

Email: r.kummerer@active-coating.com

1.4 Emergency telephone number:

+43 6245 21811

Available during office hours:

Mo. – Th.: 8-12 h und 13-17 h

Fr.: 8-13 h

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Additional information: For the wording of the hazard categories, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02

Signal word Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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- P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

Titanium dioxide:
Not applicable for inorganic substances.

vPvB:



Titanium dioxide:
Not applicable for inorganic substances.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-21194721128-37-XXXX	dimethyl ether  Flam. Gas 1A, H220  Acute Tox. 2, H330 Press. Gas (Comp.), H280	20 – 25%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide substance with a Community workplace exposure limit	< 2.0%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of discomfort or doubt, seek medical advice.
If unconscious, use a stable lateral position and do not administer anything through mouth.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with plenty of soap and water.
Take off contaminated clothing and wash it before reuse.
Seek medical treatment in case of complaints.

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After eye contact:

Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical treatment in case of complaints.

After swallowing:

Rinse mouth.
Do NOT induce vomiting.
Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Explosion hazard at temperatures above 50 °C.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only outdoors or in a well-ventilated area.
Keep receptacles tightly sealed.
Avoid contact with skin and eyes.
Do not breathe mist/vapours/spray.
Use personal protective equipment as required.
Observe protective measures and safety instructions.

Information about fire - and explosion protection:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a dry, cool, well-ventilated area.
Store in accordance with local/regional/national/international regulations.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Store separately from oxidizing and self-igniting materials.
Store away from flammable substances.

Further information about storage conditions:

Keep container tightly sealed.
Protect from heat and direct sunlight.
Do not store at temperatures higher than 50 °C.

Recommended storage temperature: room temperature

Storage class: 2 B

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
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CAS: 13463-67-7 titanium dioxide

WEL	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
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Regulatory information WEL: EH40/2020

DNELs		
CAS: 115-10-6 dimethyl ether		
Inhalative	Long-term exposure - systemic effects	471 mg/m ³ (consumer) 1,894 mg/m ³ (workers)
CAS: 13463-67-7 titanium dioxide		
Inhalative	Long-term exposure - local effects	10 mg/m ³ (consumer) 10 mg/m ³ (workers)
PNECs		
CAS: 115-10-6 dimethyl ether		
fresh water		0.155 mg/l
sea water		0.016 mg/l
intermittent release (fresh water)		1.549 mg/l
STP		160 mg/l
sediment (fresh water)		0.681 mg/kg dw
sediment (sea water)		0.069 mg/kg dw
soil		0.045 mg/kg dw
CAS: 13463-67-7 titanium dioxide		
fresh water		0.127 mg/l
sea water		1 mg/l
STP		100 mg/l
sediment (fresh water)		1,000 mg/kg dw
sediment (sea water)		100 mg/kg dw
soil		100 mg/kg dw

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls

No further data; see item 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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Ensure adequate ventilation.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection



Protective gloves

EN 374

BI type gloves.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

EN 166

Body protection: Protective work clothing

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Aerosol

Colour:

milky-white

Odour:

neutral

Odour threshold:

No information available.

Melting point/freezing point:

No information available.

Boiling point or initial boiling point and boiling range

Not applicable, as aerosol.

Flammability

Not applicable.

Lower and upper explosion limit

Lower:

≥ 3 Vol % (CAS: 115-10-6 dimethyl ether)

Upper:

≤ 18.6 Vol % (CAS: 115-10-6 dimethyl ether)

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Flash point:	Not applicable, as aerosol.
Auto-ignition temperature:	235 °C
Decomposition temperature:	No information available.
pH	7.5 - 9
Viscosity:	
Kinematic viscosity	No information available.
Dynamic:	No information available.
Solubility	
water:	miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	4.1 bar
Density and/or relative density	
Density at 20 °C:	0.8 ± 0.2 g/cm ³
Vapour density	No information available.

9.2 Other information

Appearance:

Form: Aerosol

Important information on protection of health and environment, and on safety.

Ignition temperature: ≥ 235 °C (CAS: 115-10-6 dimethyl ether)

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content:

Organic solvents: 20 – 25 %

Solids content: < 2.0 %

Change in condition

Softening point/range

Oxidising properties: No information available.

Evaporation rate: Not applicable.

Information with regard to physical hazard classes

Explosives: Void

Flammable gases: Void

Aerosols: Extremely flammable aerosol. Pressurised container: May burst if heated.

Oxidising gases: Void

Gases under pressure: Void

Flammable liquids: Void

Flammable solids: Void

Self-reactive substances and mixtures: Void

Pyrophoric liquids: Void

Pyrophoric solids: Void

Self-heating substances and mixtures: Void

Substances and mixtures, which emit flammable gases in contact with water: Void

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Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions Pressurised container: May burst if heated.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
temperature >\$

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity

LD/LC50 values relevant for classification:

CAS: 115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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CAS: 13463-67-7 titanium dioxide

Oral	LD50	> 5,000 mg/kg (rat)
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Other information:

Repeated dose toxicity

CAS: 13463-67-7 titanium dioxide

Oral	NOAEL	24,000 mg/kg bw/d (rat) (OECD 407)
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11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 115-10-6 dimethyl ether

LC50 (96 h)	1,758 mg/l (fish)
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CAS: 13463-67-7 titanium dioxide

EC50 (72 h)	62 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i>) > 1,000 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50 (96 h)	> 1,000 mg/l (fish) (<i>Pimephales promelas</i>)

12.2 Persistence and degradability

For inorganic ingredients, the methods for determining biodegradability are not applicable.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

Titanium dioxide:

Not applicable for inorganic substances.

vPvB:

Titanium dioxide:

Not applicable for inorganic substances.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 05 05	gases in pressure containers other than those mentioned in 16 05 04
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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR/RID/ADN

1950 AEROSOLS

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IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN



Class

2.5F Gases.

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

not regulated

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Warning: Gases.

Hazard identification number (Kemler code):

-

EMS Number:

F-D,S-U

Stowage Code

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H330 Fatal if inhaled.

Training hints

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: office@umena.at

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Acute Tox. 2: Acute toxicity – Category 2