

Safety Data Sheet

according to UK REACH Regulation

WS-Galvanal®

Revision date: 12.12.2022 Product code: 3888 Page 1 of 10

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

1.1. Product identifier

WS-Galvanal®

UFI: 7PW5-A9YV-9VJ2-MUCM

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

Use of the substance/mixture

industrial paint Paint, Varnish.

Uses advised against

Do not use for products which come into contact with the food stuffs.

1.3. Details of the supplier of the safety data sheet

Company name: W+S GmbH Lackchemie und Aerosol-Technik

Street: Am Sportplatz 5

Place: D-63791 Karlstein-Dettingen

Telephone: +49 6188 9575-0 Telefax: +49 6188 9575-30

e-mail: info@ws-lackchemie.de Responsible Department: Abt. Produkt / Sicherheit

1.4. Emergency telephone +49 551-19240 GIZ-Nord Poisons Centre

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:





Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation. H315 Causes skin irritation.

Precautionary statements

P211 Do not spray on an open flame or other ignition source.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

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Keep out of reach of children.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aerosole

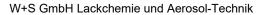
Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (GB CLP Regulatio	n)				
74-98-6	propane			20 - < 25 %		
	200-827-9	601-003-00-5				
	Flam. Gas 1; H220					
106-97-8	butane			20 - < 25 %		
	203-448-7	601-004-00-0				
	Flam. Gas 1; H220	•				
141-78-6	ethyl acetate			10 - < 15 %		
	205-500-4	607-022-00-5				
	Flam. Liq. 2, Eye Irrit. 2, STOT SI	E 3; H225 H319 H336 EUH066				
1330-20-7	xylene					
	215-535-7	601-022-00-9				
	Flam. Liq. 3, Acute Tox. 4, Acute	Tox. 4, Skin Irrit. 2; H226 H332 H312	H315			
100-41-4	ethylbenzene			1 - < 5 %		
	202-849-4	601-023-00-4				
	Flam. Liq. 2, Acute Tox. 4, STOT	RE 2, Asp. Tox. 1; H225 H332 H373	H304			
122-51-0	Triethylorthoformiat			1 - < 5 %		
	204-550-4					
	Skin Irrit. 2, Eye Irrit. 2; H315 H3	19				
78-83-1	2-methylpropan-1-ol; iso-butanol			1 - < 5 %		
	201-148-0	603-108-00-1				
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H315 H318 H335 H336					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
106-97-8	203-448-7	butane	20 - < 25 %
	inhalation: LC5	60 = 658 ppm (gases)	
1330-20-7	215-535-7	xylene	10 - < 15 %
	inhalation: ATE 1100 mg/kg	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE =	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		60 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3500 mg/kg	
78-83-1	201-148-0	2-methylpropan-1-ol; iso-butanol	1 - < 5 %
	inhalation: LC5 mg/kg	60 = > 24 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2830	





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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). No administration in cases of unconsiousness or cramps.

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Put victim at rest, cover with a blanket and keep warm. If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes. Wash thoroughly the body (shower or bath). After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Call a physician immediately. Do NOT induce vomiting. Give nothing to eat or drink.

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

@1501.B015621 Frequently or prolonged contact with skin may cause dermal irritation.

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).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder. Dry extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Heating causes rise in pressure with risk of bursting. Combustible. Vapours may form explosive mixtures with air. Special exposure hazards arising from the substance itself, combustion products, resulting gases: Nitrogen oxides (NOx). Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up



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Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Treat the recovered material as prescribed in the section on waste disposal. Suitable material for taking up: diatomaceous earth.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Information for safe handling: If handled uncovered, arrangements with local exhaust ventilation have to be used. The following must be prevented: inhalation. skin contact. Eye contact.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Only use the material in places where open light, fire and other flammable sources can be kept away. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing. Materials to avoid: Acid. Base. Oxidizing agents. Paper.

Further information on storage conditions

Store only in original container. Protect against: heat. Heating causes rise in pressure with risk of bursting.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL
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Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol		Post shift

Additional advice on limit values

source:

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Refer to chapter 7. No further action is necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Goggles.

Hand protection

Tested protective gloves are to be worn:

Suitable material: NBR (Nitrile rubber). , Butyl rubber.

Thickness of glove material: >0,4mm

penetration time (maximum wearing period): >480min

DIN-/EN-Norms EN ISO 374

Skin protection

Additional body protection measures: Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Do not eat, drink, smoke or sneeze at the workplace. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Set out skin protection guidelines.

Respiratory protection

Filtering device (full mask or mouthpiece) with filter:

Environmental exposure controls

Refer to chapter 7 No further action is necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: characteristic
Odour: characteristic
Odour threshold: not determined

Test method

Boiling point or initial boiling point and 4 °C

boiling range:

Lower explosion limits: 1,7 vol. % Upper explosion limits: 10,9 vol. %

Flash point: -38 °C DIN EN ISO 1523

Auto-ignition temperature: 273 °C DIN 51794
Vapour pressure: 3,2 hPa DIN EN 12

(at 20 °C)
Density: 0,75 g/cm³

9.2. Other information

Other safety characteristics

Solvent content: VOCV (CH): 74,1 % VOC (EU): 677,27 g/l

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Flow time: 34 (3 mm)

SECTION 10: Stability and reactivity

10.1. Reactivity

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

10.2. Chemical stability

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

10.3. Possibility of hazardous reactions

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard. Danger of bursting container.

10.5. Incompatible materials

Reacts with: Alkalis (alkalis). Oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Propan LC50: 56 - 80 Vol.-% (Rat , 15 min.) Dimethylether LC50: 308 mg/L (Rat)

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
106-97-8	butane						
	inhalation (4 h) gas	LC50	658 ppm	Rat	GESTIS		
1330-20-7	xylene						
	dermal	ATE mg/kg	1100				
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
100-41-4	ethylbenzene						
	oral	LD50 mg/kg	3500	Rat	GESTIS		
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS		
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat			
	inhalation dust/mist	ATE	1,5 mg/l				
78-83-1	2-methylpropan-1-ol; iso	-butanol					
	oral	LD50 mg/kg	> 2830	Rat			
	dermal	LD50 mg/kg	> 2000	Rat			
	inhalation (4 h) vapour	LC50	> 24 mg/l	Rat			

Irritation and corrosivity

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STOT-repeated exposure

Can cause frostbite. Has de-greasing effect on the skin.

Specific effects in experiment on an animal

Toxicological data are not available.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

Aquatoxicity

Harmful for Water fleas.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
100-41-4	ethylbenzene						
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	Algen	GESTIS	
78-83-1	2-methylpropan-1-ol; iso-l	outanol					
	Acute fish toxicity	LC50 mg/l	1430	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 mg/l	1250		Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	1439	48 h	Daphnia magna		

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36
106-97-8	butane	2,89
100-41-4	ethylbenzene	3,15
78-83-1	2-methylpropan-1-ol; iso-butanol	0,79

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

No data available

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Do not allow uncontrolled leakage of product into the environment.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity:1 LExcepted quantity:E0Transport category:2Tunnel restriction code:D

Other applicable information (land transport)

: 190 - 327 - 625

: 2 : D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0





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Other applicable information (inland waterways transport)

: 190 327 625

Marine transport (IMDG)

14.1. UN number or ID number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959

Limited quantity: 1000 mL Excepted quantity: E0 F-D, S-U

Other applicable information (marine transport) : 63, 190, 277, 327, 959

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1



Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

Other applicable information (air transport)

: A1

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 28, Entry 40, Entry 75

2004/42/EC (VOC): VOCV (CH): 74,1 %

VOC (EU): 677,27 g/l

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water



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15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

	H statements (number and full text)
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)