

Johannes J. Matthies GmbH & Co. KG

Safety Data Sheet

according to UK REACH Regulation

JMC Kettenspray Topsynth

Revision date: 12.09.2024

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

1.1. Product identifier

JMC Kettenspray Topsynth

UFI:

RP9V-0JGT-DN0P-WQ4G

info@larsson.uk.com

www.larsson.uk.com

+ 44 1536 265633

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

Use of the substance/mixture

Lubricating agent

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Street: Place:	Johannes J. Matthies GmbH & Co. KG Hammerbrookstr. 97 D-20097 Hamburg	
Telephone: E-mail: Internet: Responsible Department:	+ 49 (0) 40 2 37 21-0 info@matthies.de www.matthies.de Abteilung Produktsicherheit	Telefax:+ 49 (0) 40 2 37 21-363
Supplier Company name: Street: Place: Telephone:	Larsson UK Ltd. 7 Alpha Court, Phoenix Parkway GB-NN17 5DP Corby + 44 1536 265633	

1.4. Emergency telephone number:

E-mail:

Internet:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling Hydrocarbons, C7-C9, isoalkanes

Signal word:

Pictograms:



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Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statem	nents
P101	If medical advice is needed, have product container or label at hand.
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.
Special labelling of c	ertain mixtures
EUH208	Contains Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts. May produce an allergic reaction.
2.3. Other hazards	

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

according to UK REACH Regulation

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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•		
106-97-8	butane			25 - < 50 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Compressed gas; H	220 H280		
75-28-5	isobutane			25 - < 50 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Compressed gas; H	220 H280	-	
64741-66-8	Hydrocarbons, C7-C9, isoalkanes	i		20 - < 25 %
	921-728-3		01-2119471305-42	
	Flam. Liq. 2, Skin Irrit. 2, STOT Sl H411	E 3, Asp. Tox. 1, Aquatic C	hronic 2; H225 H315 H336 H304	
74-98-6	propane	3 - < 5 %		
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220	H280		
17265-14-4	Disodium sebacate			1 - < 3 %
	241-300-3			
	Eye Irrit. 2; H319	•	•	
68037-01-4	1-decene, homopolymer, hydroge	nated		1 - < 3 %
	500-183-1		01-2119486452-34	
	Asp. Tox. 1; H304	•		
97675-24-6	Benzene, C9-13-alkyl derivs., dist	0,1 - < 1 %		
	307-593-8		01-2119985174-30	
	Skin Sens. 1B; H317		·	

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	25 - < 50 %
	inhalation: LC	50 = 658 ppm (gases)	
64741-66-8	921-728-3	Hydrocarbons, C7-C9, isoalkanes	20 - < 25 %
		:50 = > 21 mg/l (vapours); inhalation: LC50 = > 9,4 mg/l (dusts or mists); dermal: 0 - 2500 mg/kg; oral: LD50 = > 7100 - 7800 mg/kg	
17265-14-4	241-300-3	Disodium sebacate	1 - < 3 %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
68037-01-4	500-183-1	1-decene, homopolymer, hydrogenated	1 - < 3 %
	inhalation: LC 5000 mg/kg	50 = > 5,2 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = >	
97675-24-6	307-593-8	Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts	0,1 - < 1 %
		50 = > 5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 Sens. 1B; H317: >= 10 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

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After inhalation

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When in doubt or if symptoms are observed, get medical advice.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Causes skin irritation. May cause drowsiness or dizziness. Headache. Nausea. Dizziness.

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water mist. Foam. Carbon dioxide (CO2). Extinguishing powder.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, aldehydes, carbon black, Pyrolysis products, toxic.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information

Danger of bursting container.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

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. Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

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Other information

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Do not rinse down with water.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Personal protection equipment: see section 8

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

Further information on handling

Avoid contact with skin. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Observe in addition any national regulations!

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: Frost. Protect against direct sunlight. Store in a cool dry place. Observe in addition any national regulations!

7.3. Specific end use(s)

Lubricating agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
64741-66-8	Hydrocarbons, C7-C9, isoalkanes				
Worker DNEL,	long-term	inhalation	systemic	2035 mg/m ³	
Worker DNEL,	long-term	dermal	systemic	773 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	608 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	699 mg/kg bw/day	
Consumer DNEL, long-term oral systemic 699 mg/kg bw/c					
97675-24-6	Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, c	alcium salts			
Worker DNEL,	long-term	inhalation	systemic	0,66 mg/m ³	
Worker DNEL,	long-term	dermal	systemic	3,33 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	0,33 mg/m ³	
Consumer DN	EL, long-term	dermal	systemic	1,667 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	0,833 mg/kg bw/day	

PNEC values

CAS No	Substance	
Environment	al compartment	Value
97675-24-6	Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)	10 mg/l
Marine water		1 mg/l
Freshwater s	ediment	723500000 mg/kg
Marine sedin	nent	723500000 mg/kg
Secondary p	oisoning	16,667 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	100 mg/l
Soil		868700000 mg/kg

Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long term exposure: after several previous shifts

d before next shift

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept Z: A risk of reproductive effects cannot to be excluded if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept Whole blood (B) Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Eye/face protection

Tightly sealed safety glasses. (DIN EN 166)

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Hand protection

Wear suitable gloves. (EN ISO 374)

Suitable material: NBR (Nitrile rubber) Breakthrough time: >= 480 min Thickness of the glove material: >= 0,45 mm

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.

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. exceeding exposure limit values: Filtering device with filter or ventilator filtering device of type: AX (DIN EN 141) Observe the wear time limits as specified by the manufacturer. Observe in addition any national regulations!

Environmental exposure controls

Avoid release to the environment. Observe in addition any national regulations!

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	white, light yellow	
Odour:	characteristic	
Odour threshold:	not determined	
		Test method
pH-Value (at 20 °C):	not determined	DIN 19268
Changes in the physical state		
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	- 11,7 °C	
Flash point:	- 80 °C	
Flammability		
Solid/liquid:	Flammable aerosol.	
Explosive properties Heating may cause an explosion.		
Lower explosion limits:	0,7 vol. %	
Upper explosion limits:	15 vol. %	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	0,79 g/cm³	DIN 51757
Water solubility:	practically insoluble	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	

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Viscosity / kinematic:

Relative vapour density:

9.2. Other information

Data apply to the technically active substance.: Relative density, Colour, Odour, Viscosity, pH

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, aldehydes, carbon black, Pyrolysis products, toxic.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

not determined not determined

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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
106-97-8	butane							
	inhalation gas	LC50	658 ppm	Rat	GESTIS (Manufacturer)			
64741-66-8	Hydrocarbons, C7-C9, is	oalkanes						
	oral	LD50 7800 mg/kg	> 7100 -	Rat	Manufacturer	OECD 401		
	dermal	LD50 2500 mg/kg	> 2200 -	Rabbit	Manufacturer			
	inhalation (4 h) vapour	LC50	> 21 mg/l	Rat	Manufacturer	OECD 403		
	inhalation (4 h) dust/mist	LC50 mg/l	> 9,4	Rat	Manufacturer			
17265-14-4	Disodium sebacate							
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer			
	dermal	LD50 mg/kg	> 2000	Rat	Manufacturer			
68037-01-4	1-decene, homopolymer, hydrogenated							
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer			
	dermal	LD50 mg/kg	> 2000	Rabbit	Manufacturer			
	inhalation (4 h) dust/mist	LC50 mg/l	> 5,2	Rat	Manufacturer			
97675-24-6	Benzene, C9-13-alkyl de	erivs., distn. re	sidues, sulf	onated, calcium salts				
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer	OECD 423		
	dermal	LD50 mg/kg	> 2000	Rat	Manufacturer	OECD 402		
	inhalation (4 h) dust/mist	LC50	> 5 mg/l	Rat	Manufacturer			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met. Contains Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Carcinogenicity: Based on available data, the classification criteria are not met.

- Reproductive toxicity: Based on available data, the classification criteria are not met.
- No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist. No indications of human reproductive toxicity exist.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C7-C9, isoalkanes)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
106-97-8	butane			-			
	Acute fish toxicity	LC50 mg/l	49,9	96 h	piscis	Manufacturer	
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	Manufacturer	
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	Manufacturer	
75-28-5	isobutane			-			
	Acute fish toxicity	LC50 mg/l	91,42	96 h	piscis	Manufacturer	
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	Manufacturer	
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	Manufacturer	
64741-66-8	Hydrocarbons, C7-C9, isc	balkanes					
	Acute fish toxicity	LL50 mg/l	> 13,4	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	OECD 203
	Acute algae toxicity	ErC50	12 mg/l	72 h	Raphidocelis approx. @1719.B01728subca pitata	Manufacturer	OECD 201
	Acute crustacea toxicity	EL50	2,4 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	
	Fish toxicity	NOEC mg/l	0,778	28 d	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	CONCAWE,Bruss els, Belgium(2009)
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer	OECD 211
74-98-6	propane						
	Acute fish toxicity	LC50 mg/l	49,9	96 h	piscis	Manufacturer	
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	Manufacturer	
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	Manufacturer	
68037-01-4	1-decene, homopolymer,	hydrogenat	ed				
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Desmodesmus subspicatus	Manufacturer	
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna (Big water flea)	Manufacturer	
97675-24-6	Benzene, C9-13-alkyl der	ivs., distn. r	esidues, sulfo	onated, c			
	Acute fish toxicity	LL50 mg/l	> 10000	96 h	Cyprinodon variegatus	Manufacturer	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Manufacturer	EPA OTS797.1300
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 201

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	1,09
75-28-5	isobutane	1,09
64741-66-8	Hydrocarbons, C7-C9, isoalkanes	4,5
74-98-6	propane	1,09
97675-24-6	Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts	10,68

BCF

CAS No	Chemical name	BCF	Species	Source
64741-66-8	Hydrocarbons, C7-C9, isoalkanes	198,7	Mytilus edulis	Manufacturer

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

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 information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-

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Hazard label:	2.1
Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Tunnel restriction code:	5F 190 327 344 625 1 L E0 2 D
Inland waterways transport (ADN) <u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity: Excepted quantity:	1 L E0
	EU
Marine transport (IMDG)	UN 1950
14.1. UN number:	AEROSOLS
14.2. UN proper shipping name:	2.1
14.3. Transport hazard class(es):	
<u>14.4. Packing group:</u> Hazard label:	- 2.1
	2.1
Marine pollutant:	_ V
Special Provisions:	- 63, 190, 277, 327, 344, 381, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	
14.2. UN proper shipping name:	AEROSOLS, FLAMMABLE
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0

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IATA-packing instructions - Passenger:		203
IATA-max. quantity - Passenger:		75 kg
IATA-packing instructions - Cargo:		203 450 hrs
IATA-max. quantity - Cargo:		150 kg
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
Warning: Extremely flammable aeros		
14.7. Maritime transport in bulk according	to IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation sp	ecific for the substance or mixture
EU regulatory information		
Restrictions on use (REACH, annex XVII):	
Entry 3, Entry 40		
Directive 2010/75/EU on industrial	No information avai	lable.
emissions:		
Directive 2004/42/EC on VOC in paints and varnishes:	No information avai	lable.
Information according to Directive	P3a FLAMMABLE	AFROSOLS
2012/18/EU (SEVESO III):		
Additional information		
Aerosol directive (75/324/EEC).		
National regulatory information		
Employment restrictions:	Observe restrictions	s to employment for juveniles according to the 'juvenile
	work protection guid	
Water hazard class (D):	2 - obviously hazar	dous to water
Additional information		
Observe in addition any national regu	lations!	
15.2. Chemical safety assessment		
Chemical safety assessments for sub	stances in this mixture	were not carried out.
SECTION 16: Other information		
Abbreviations and acronyms		
CAC: Chaminal Abatmanta Camilian		

CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging EU: European Union GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals REACh: Registration, Evaluation and Authorization of Chemicals **UN: United Nations** PBT: Persistent, Bioaccumulative, Toxic SVHC: Substance of Very High Concern vPvB: very Persistent, very Bioaccumulative ATE: Acute Toxicity Estimates **BCF: Bio-Concentration Factor** DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration VOC: Volatile Organic Compounds DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization) EN: European Standard

according to UK REACH Regulation

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ISO: International Organization for Standardization IUCLID: International Uniform ChemicaL Information Database LC50: Lethal Concentration, 50 % LD50: Lethal Dose, 50 % LL50: Lethal Loading, 50 % OECD: Organisation for Economic Co-operation and Development EC50: Effective Concentration 50 % M-Faktor: Multiplication Factor EL50: Effect Loading, 50 % ErC50: Effective Concentration 50 %, growth rate M-Faktor: Multiplication Factor NOEC: No Observed Effect Concentration ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DGR: Dangerous Goods Regulations EmS: Emergency Schedules IATA: International Air Transport Association IBC: Intermediate Bulk Container ICAO: International Civil Aviation Organization IE: Industrial Emissions IMDG: International Maritime Code for Dangerous Goods LQ: Limited Quantity MARPOL: International Convention for the Prevention of Marine Pollution from Ships MFAG: Medical First Aid Guide RID: Regulations concerning the International carriage of Dangerous goods by rail **TI: Technical Instructions**

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Benzene, C9-13-alkyl derivs., distn. residues, sulfonated, calcium salts. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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Safety Data Sheet

according to UK REACH Regulation

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