

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Sample Aluminium Spray 400 ml 17-09021 400 ml

Version 1.0

Revision Date 28.03.2014

Print Date 20.11.2018

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

1.1 Product identifier

Trade name : Sample Aluminium Spray 400 ml 17-09021 400 ml

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: : (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free) : 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable aerosols , Category 1	H222: Extremely flammable aerosol.
Eye irritation , Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure , Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Chronic aquatic toxicity , Category 3	H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable	R12: Extremely flammable.
Irritant	R36: Irritating to eyes. R67: Vapours may cause drowsiness and dizziness.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause

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long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H222 Extremely flammable aerosol. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P271 Use only outdoors or in a well-ventilated area. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
141-78-6 ethyl acetate

Additional Labelling:

,,, S16, S 2 ; Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C., Do not pierce or burn, even after use., Do not spray on a naked flame or any incandescent material., Keep away from sources of ignition - No smoking., Keep out of the reach of

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children.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
butane	106-97-8 203-448-7	F+; R12	Flam. Gas 1; H220 Press. Gas C; H280	>= 10 - < 20
propane	74-98-6 200-827-9	F+; R12	Flam. Gas 1; H220 Press. Gas C; H280	>= 10 - < 20
ethyl acetate	141-78-6 205-500-4 01-2119475103-46	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 15 - < 20
acetone	67-64-1 200-662-2 01-2119471330-49	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 15
xylene	1330-20-7 215-535-7	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315	>= 5 - < 10
aluminium	7429-90-5 231-072-3 01-2119529243-45	F; R11	Flam. Sol. 1; H228	< 10
n-butyl acetate	123-86-4 204-658-1 01-2119485493-29	R10 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336	< 10
Solvent naphtha (petroleum), light	64742-95-6 265-199-0	Xn; R65 Xi; R37	Flam. Liq. 3; H226 Asp. Tox. 1; H304	>= 2.5 - < 10

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arom.	01-2119455851-35	N; R51/53 R10 R66 R67	STOT SE 3; H335, H336 Aquatic Chronic 2; H411	
Naphtha (petroleum), hydrotreated heavy	64742-48-9 265-150-3	Xn; R65	Asp. Tox. 1; H304	>= 1 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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SECTION 5: Firefighting measures**5.1 Extinguishing media**Suitable extinguishing media : Carbon dioxide (CO₂), Alcohol-resistant foam, Dry sand

Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Use personal protective equipment.
Avoid breathing dust.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.**6.2 Environmental precautions**Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Do not flush with water.

6.4 Reference to other sections

This information is not available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

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SECTION 8: Exposure controls/personal protection
8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
butane	106-97-8	STEL	750 ppm 1,810 mg/m ³	2007-08-01	GB EH40
Further information		Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
butane	106-97-8	TWA	600 ppm 1,450 mg/m ³	2007-08-01	GB EH40
Further information		Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
ethyl acetate	141-78-6	TWA	200 ppm	2005-04-06	GB EH40
ethyl acetate	141-78-6	STEL	400 ppm	2005-04-06	GB EH40
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
acetone	67-64-1	TWA	500 ppm 1,210 mg/m ³	2000-06-16	2000/39/EC
Further information		Indicative			
acetone	67-64-1	TWA	500 ppm 1,210 mg/m ³	2005-04-06	GB EH40
acetone	67-64-1	STEL	1,500 ppm 3,620 mg/m ³	2005-04-06	GB EH40

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
xylene	1330-20-7	TWA	50 ppm 220 mg/m ³	2005-04-06	GB EH40
Further information		Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
xylene	1330-20-7	STEL	100 ppm 441 mg/m ³	2005-04-06	GB EH40
Further information		Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
xylene	1330-20-7	TWA	50 ppm 221 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
xylene	1330-20-7	STEL	100 ppm 442 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m ³	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m ⁻³ 8-hour TWA of inhalable dust or 4 mg.m ⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m ³	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m ⁻³ 8-hour TWA of inhalable dust or 4 mg.m ⁻³ 8-hour TWA of respirable dust. This means that any			

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		dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m ³	2005-04-06	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m ⁻³ 8-hour TWA of inhalable dust or 4 mg.m ⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m ³	2005-04-06	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m ⁻³ 8-hour TWA of inhalable dust or 4 mg.m ⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain			

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		<p>particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m ³	2005-04-06	GB EH40
n-butyl acetate	123-86-4	STEL	200 ppm 966 mg/m ³	2005-04-06	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Update
xylene	1330-20-7	methyl hippuric acid: (Urine)	Post shift	2005-04-06

DNEL:

ethyl acetate (141-78-6)

End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: short term – local effects
 Value: 1468 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: short term – systemic effects
 Value: 1468 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: long term – local effects
 Value: 734 mg/m³

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DNEL:

ethyl acetate (141-78-6)

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 63 mg/kg

DNEL:

ethyl acetate (141-78-6)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 734 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 734 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 734 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 367 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 37 mg/kg

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 367 mg/m³

DNEL:

ethyl acetate (141-78-6)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 4.5 mg/kg

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DNEL:

acetone (67-64-1)

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 186 mg/kg

DNEL:

acetone (67-64-1)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 1210 mg/m³

DNEL:

acetone (67-64-1)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 62 mg/kg

DNEL:

acetone (67-64-1)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 62 mg/kg

DNEL:

acetone (67-64-1)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 200 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 289 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 289 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 77 mg/m³

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DNEL:

xylene (1330-20-7)

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 180 mg/kg

DNEL:

xylene (1330-20-7)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 174 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 174 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 108 mg/kg

DNEL:

xylene (1330-20-7)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 14.8 mg/m³

DNEL:

xylene (1330-20-7)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 1.6 mg/kg

DNEL:

n-butyl acetate (123-86-4)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 960 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 960 mg/m³

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DNEL:

n-butyl acetate (123-86-4)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 480 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 480 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – local effects
Value: 859.7 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: short term – systemic effects
Value: 859.7 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – local effects
Value: 102.34 mg/m³

DNEL:

n-butyl acetate (123-86-4)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 102.34 mg/m³

DNEL:

Solvent naphtha (petroleum),
light arom. (64742-95-6)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 11 mg/kg

DNEL:

Solvent naphtha (petroleum),
light arom. (64742-95-6)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 11 mg/kg

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DNEL:

Solvent naphtha (petroleum),
light arom. (64742-95-6)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 32 mg/m³

DNEL:

Naphtha (petroleum),
hydrotreated heavy (64742-
48-9)

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 300 mg/kg

DNEL:

Naphtha (petroleum),
hydrotreated heavy (64742-
48-9)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 300 mg/kg

DNEL:

Naphtha (petroleum),
hydrotreated heavy (64742-
48-9)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 300 mg/kg

DNEL:

Naphtha (petroleum),
hydrotreated heavy (64742-
48-9)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 900 mg/m³

PNEC:

ethyl acetate (141-78-6)

:
Soil
Value: 0.24 mg/kg

PNEC:

ethyl acetate (141-78-6)

:
STP
Value: 650 mg/l

PNEC:

acetone (67-64-1)

:
Soil
Value: 29.5 mg/kg

PNEC:

acetone (67-64-1)

:
Fresh water
Value: 10.6 mg/l

PNEC:

:

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acetone (67-64-1) Fresh water sediment
Value: 30.4 mg/kg

PNEC: :
acetone (67-64-1) Marine water
Value: 1.06 mg/l

PNEC: :
acetone (67-64-1) Marine sediment
Value: 3.04 mg/kg

PNEC: :
xylene (1330-20-7) Soil
Value: 2.31 mg/kg

PNEC: :
xylene (1330-20-7) Fresh water
Value: 0.327 mg/l

PNEC: :
xylene (1330-20-7) Fresh water sediment
Value: 12.46 mg/kg

PNEC: :
xylene (1330-20-7) Marine water
Value: 0.327 mg/l

PNEC: :
xylene (1330-20-7) Marine sediment
Value: 12.46 mg/kg

PNEC: :
xylene (1330-20-7) STP
Value: 6.58 mg/l

PNEC: :
n-butyl acetate (123-86-4) Soil
Value: 0.0903 mg/kg

PNEC: :
n-butyl acetate (123-86-4) Fresh water
Value: 0.18 mg/l

PNEC: :
n-butyl acetate (123-86-4) Fresh water sediment
Value: 0.981 mg/kg

PNEC: :

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n-butyl acetate (123-86-4)	:	STP Value: 35.6 mg/l
PNEC: n-butyl acetate (123-86-4)	:	Marine water Value: 0.018 mg/l
PNEC: n-butyl acetate (123-86-4)	:	Marine sediment Value: 0.0981 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Hand protection	:	
Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	In the case of vapour formation use a respirator with an

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approved filter.

In the case of dust or aerosol formation use respirator with an approved filter.

Environmental exposure controls

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: no data available
Odour	: characteristic
pH	: no data available
Freezing point	: no data available
Boiling point/boiling range	: -44 °C
Flash point	: -97 °C
Bulk density	: no data available
Flammability (solid, gas)	: no data available
Auto-flammability	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Density	: no data available
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available

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Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Flow time : no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l

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Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

1330-20-7 :

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Method: Converted acute toxicity point estimate

7429-90-5 :

Acute inhalation toxicity : LC50 rat: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin corrosion/irritation

Product

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Carcinogenicity

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no data available

Toxicity to reproduction/fertility

no data available

Reprod.Tox./Development/Teratogenicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

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no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Product:

Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

European Waste Catalogue : 16 05 04 - gases in pressure containers (including halons) containing dangerous substances

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : 1950

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IMDG : 1950

IATA : 1950

14.2 Proper shipping name

ADR : AEROSOLS

IMDG : AEROSOLS

IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class

ADR : 2

IMDG : 2.1

IATA : 2.1

14.4 Packing group

ADR

Classification Code : 5F

Labels : 2.1

Tunnel restriction code : (D)

IMDG

Labels : 2.1

EmS Number : F-D, S-U

IATA

Packing instruction (cargo aircraft) : 203

Packing instruction (passenger aircraft) : 203

Packing instruction (LQ) : Y203

Labels : 2.1

14.5 Environmental hazards

14.6 Special precautions for user

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

no data available

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SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

Full text of H-Statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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