

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

1.1 Product identifier

Trade name **ALUMA GALV PREMIUM SPRAY**

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

Identified use:
The product is intended for professional use

1.3 Details of the supplier of the safety data sheet

CANTESCO
KEMPER SYSTEM GmbH & Co. KG
Boschstr. 14-16
48653 Coesfeld
Germany

Telephone: +49 (0) 25 41 920 - 0
Telefax: +49 (0) 25 41 920 - 400
e-Mail: MSDS@KEMPER-SYSTEM.COM

1.4 Emergency telephone number

Emergency information service This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

Name	Street	Postal code/city	Telephone
Beratungsstelle bei Vergiftungen Giftnformationszentrale der Länder Rheinland-Pfalz und Hessen	Langenbeckstraße 1	55131 Mainz	+49(0)6131 / 19240 (24 h von Mo. - So.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word

Danger

GHS02, GHS07



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H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
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.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

Hazardous ingredients for labelling:

Ethyl acetate. Acetone.

2.3 Other hazards

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC
butane	CAS No 106-97-8 EC No 203-448-7 Index No 601-004-00-0 REACH Reg. No 01-2119474691-32	25 - < 50	Flam. Gas 1 / H220 Press. Gas L / H280
propane	CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944-21	10 - < 25	Flam. Gas 1 / H220 Press. Gas L / H280
ethyl acetate	CAS No 141-78-6 EC No 205-500-4 REACH Reg. No 01-2119475103-46-xxxx	10 - < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066
acetone	CAS No 67-64-1 EC No 200-662-2 Index No 606-001-00-8 REACH Reg. No 01-2119471330-49	10 - < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC
xylene	CAS No 1330-20-7 EC No 215-535-7 Index No 601-022-00-9 REACH Reg. No 01-2119488216-32-xxxx	5 - < 10	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315
N-butyl acetate	CAS No 123-86-4 EC No 204-658-1 REACH Reg. No 01-2119485493-29-xxxx	1 - < 5	Flam. Liq. 3 / H226 STOT SE 3 / H336 EUH066
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	CAS No 64742-48-9 EC No 920-134-1 REACH Reg. No 01-2119480153-44-xxxx	1 - < 5	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066
Aluminium powder (Stabilized)	CAS No 7429-90-5 EC No 231-072-3 Index No 013-001-00-6 REACH Reg. No 01-2119529243-45-xxxx	1 - < 5	Flam. Sol. 1 / H228
zinc	CAS No 7440-66-6 EC No 231-175-3 REACH Reg. No 01-2119467174-37-xxxx	1 - < 5	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

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Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
EU	xylene	1330-20-7	IOELV	50	221	100	442	2000/39/E C
EU	acetone	67-64-1	IOELV	500	1,210			2000/39/E C
UK	hydrocarbon mixture (RCP method)		WEL		250		500	EH40/200 5
GB	butane	106-97-8	WEL	600	1,450	750	1,810	EH40/200 5
GB	butyl acetate	123-86-4	WEL	150	724	200	966	EH40/200 5
GB	xylene, mixture of isomers	1330-20-7	WEL	50	220	100	441	EH40/200 5
GB	ethyl acetate	141-78-6	WEL	200		400		EH40/200 5
GB	acetone	67-64-1	WEL	500	1,210	1,500	3,620	EH40/200 5
GB	aluminium	7429-90-5	WEL		10			EH40/200 5
GB	aluminium	7429-90-5	WEL		4			EH40/200 5

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
GB	xylene	methylhippuric acids	crea	BMGV	650 mmol/mol	EH40/2005

Notation

crea Creatinine

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	2,420 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	1,210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	289 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	289 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	180 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	300 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
N-butyl acetate	123-86-4	DNEL	600 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
N-butyl acetate	123-86-4	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
N-butyl acetate	123-86-4	DNEL	48 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N-butyl acetate	123-86-4	DNEL	960 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	64742-48-9	DNEL	208 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	64742-48-9	DNEL	871 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Aluminium powder (Stabilized)	7429-90-5	DNEL	3.72 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Aluminium powder (Stabilized)	7429-90-5	DNEL	3.72 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
zinc	7440-66-6	DNEL	83 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
zinc	7440-66-6	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

• **relevant PNECs of components of the mixture**

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl acetate	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.65 mg/l	aquatic organisms	water	intermittent release
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
acetone	67-64-1	PNEC	21 mg/l	aquatic organisms	water	intermittent release
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	water	intermittent release
xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.36 mg/l	aquatic organisms	water	intermittent release
N-butyl acetate	123-86-4	PNEC	35.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.981 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.098 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N-butyl acetate	123-86-4	PNEC	0.09 mg/kg	terrestrial organisms	soil	short-term (single instance)
zinc	7440-66-6	PNEC	20.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
zinc	7440-66-6	PNEC	6.1 µg/l	aquatic organisms	marine water	short-term (single instance)
zinc	7440-66-6	PNEC	100 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
zinc	7440-66-6	PNEC	117.8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
zinc	7440-66-6	PNEC	56.5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
zinc	7440-66-6	PNEC	35.6 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls



Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

• **hand protection**

Wear protective gloves. (Splash protection)

• **type of material**

NR: natural rubber, latex

• **breakthrough times of the glove material**

>30 minutes (permeation: level 2)

• **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Self-contained breathing apparatus (EN 133). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Blue/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	aerosol (spray aerosol)
Colour	silver grey
Odour	characteristic

Other physical and chemical parameters

Melting point/freezing point	not applicable (aerosol)
Initial boiling point and boiling range	not applicable (aerosol)
Flash point	not applicable (aerosol)
Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria
Explosive limits	
• lower explosion limit (LEL)	0.6 vol%
• upper explosion limit (UEL)	15 vol%
Vapour pressure	4,200 hPa at 20 °C
Density	0.6858 g/ml (calculated value)
Partition coefficient	
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	240 °C
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidising properties	none

9.2 Other information

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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
xylene	1330-20-7	dermal	1,100 mg/kg
xylene	1330-20-7	inhalation: vapour	11 mg/l/4h
Aluminium powder (Stabilized)	7429-90-5	inhalation: dust/mist	0.888 mg/l/4h

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
ethyl acetate	141-78-6	dermal	LD50	>20,000 mg/kg	rabbit
acetone	67-64-1	oral	LD50	5,800 mg/kg	rat
xylene	1330-20-7	oral	LD50	5,627 mg/kg	mouse
Aluminium powder (Stabilized)	7429-90-5	inhalation: dust/mist	LC50	>0.888 mg/l/4h	rat
zinc	7440-66-6	oral	LD50	>2,000 mg/kg	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• **Specific target organ toxicity - single exposure**

May cause drowsiness or dizziness.

• **Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butane	106-97-8	LC50	27.98 mg/l	fish	96 h
butane	106-97-8	EC50	7.71 mg/l	algae	96 h
propane	74-98-6	LC50	27.98 mg/l	fish	96 h
propane	74-98-6	EC50	7.71 mg/l	algae	96 h
ethyl acetate	141-78-6	LC50	230 mg/l	fish	96 h
ethyl acetate	141-78-6	EC50	220 mg/l	fish	96 h
acetone	67-64-1	LC50	8,120 mg/l	fish	96 h
N-butyl acetate	123-86-4	LC50	18 mg/l	fish	96 h
N-butyl acetate	123-86-4	EC50	18 mg/l	fish	96 h
N-butyl acetate	123-86-4	ErC50	392 mg/l	algae	48 h
zinc	7440-66-6	LC50	439 µg/l	fish	96 h
zinc	7440-66-6	EC50	1,833 µg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl acetate	141-78-6	EC50	2,306 mg/l	aquatic invertebrates	24 h
acetone	67-64-1	EC50	61.15 g/l	microorganisms	30 min
N-butyl acetate	123-86-4	EC50	34.2 mg/l	aquatic invertebrates	21 d
N-butyl acetate	123-86-4	LC50	43.5 mg/l	aquatic invertebrates	21 d
N-butyl acetate	123-86-4	ErC50	335 mg/l	algae	24 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
ethyl acetate	141-78-6	oxygen depletion	62 %	5 d
acetone	67-64-1	carbon dioxide generation	90.9 %	28 d
N-butyl acetate	123-86-4	oxygen depletion	80 %	5 d
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	64742-48-9	oxygen depletion	7.1 %	6 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
ethyl acetate	141-78-6	30	0.68 (pH value: 7, 25 °C)	
acetone	67-64-1		-0.24	
N-butyl acetate	123-86-4		2.3 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

15 01 11x metallic packaging containing a dangerous solid porous matrix (e.g. asbestos), including empty pressure containers
16 05 04x gases in pressure containers (including halons) containing dangerous substances
15 01 10x packaging containing residues of or contaminated by dangerous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

14.1	UN number	1950
14.2	UN proper shipping name	AEROSOLS
14.3	Transport hazard class(es) Class Subsidiary risk(s)	2 (gases) (aerosol) 2.1 (flammability)
14.4	Packing group	not assigned to a packing group
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

• International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

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• **International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number 1950
 Proper shipping name Aerosols, flammable
 Class 2.1
 Danger label(s) 2.1



Special provisions (SP) A145, A167
 Excepted quantities (EQ) E0
 Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

• **Directive 75/324/EEC relating to aerosol dispensers**

Classification of the gas/aerosol Extremely flammable

Labelling

Pressurized container: may burst if heated
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 Do not pierce or burn, even after use
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C

• **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**

Product category	Product subcategory	VOC g/l
vehicle refinishing products	special finishes	840

VOC content 95.46 %
654.7 g/l

Maximum VOC content limit				
Product category	Product subcategory	Coating	Type	VOC g/l
vehicle refinishing products	special finishes	all types		840

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

2000/39/EC.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.
Acute Tox.	Acute toxicity.
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 relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
Aquatic Acute.	Hazardous to the aquatic environment - acute hazard.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
ATE.	Acute Toxicity Estimate.
BCF.	Bioconcentration factor.
BOD.	Biochemical Oxygen Demand.
CAS.	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP.	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EH40/2005.	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
Ems.	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
Flam. Sol.	Flammable solid.
GHS.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA.	International Air Transport Association.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
Index No.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
IOELV.	Indicative occupational exposure limit value.
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
RCP.	Reciprocal calculation procedure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
STEL.	Short-term exposure limit.
STOT SE.	Specific target organ toxicity - single exposure.
TWA.	Time-weighted average.
VOC.	Volatile Organic Compounds.
VPvB.	Very Persistent and very Bioaccumulative.
WEL.	Workplace exposure limit.

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H228.	Flammable solid.
H229.	Pressurized container: may burst if heated.
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.
H336.	May cause drowsiness or dizziness.
H400.	Very toxic to aquatic life.
H410.	Very toxic to aquatic life with long lasting effects.
H411.	Toxic to aquatic life with long lasting effects.
H412.	Harmful to aquatic life with long lasting effects.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.