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RUDOLF-DIESEL-STRASSE 8A
69115 HEIDELBERG
GERMANY

FON 0049 (0) 6221 - 520 440
FAX 0049 (0) 6221 - 520 449
MAIL INFO@CHAMAELEON-PRODUKTION.DE
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SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

Revision date: 16.07.2024

1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product details
Trade name: Aerosol Primer Pro
Article number: 26142
Relevant identified uses of the substance or mixture and uses advised against:
No further relevant information available.
Sector of Use:
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category: Coatings and paints, thinners and paint removers
Process category:
PROC7 Industrial spraying
PROC11 Non industrial spraying
Intended use: Car refinishing product/ Lacquer
Manufacturer/Supplier:
Chamäleon GmbH
Rudolf-Diesel-Straße, 8a, 69115 Heidelberg
Germany
Further information obtainable from: Product Safety Department
Information in case of emergency: + 49 70024112112 (CH)

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

flame

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

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Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms

GHS02 GHS07

Signal word Danger

Hazard-determining components of labelling:

acetone
n-butyl acetate
2-methoxy-1-methylethyl acetate
butan-1-ol

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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.
P260 Do not breathe spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container in accordance with regional regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Other hazards

Results of PBT and vPvB assessment

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- **PBT:** Not applicable.
  vPvB: Not applicable.

3– COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	20-<25%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220 Press. Gas (Comp.), H280	20-<25%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336, EUH066	12.5-<20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1A, H220 Press. Gas (Comp.), H280	5-<10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17	titanium dioxide Carc. 2, H351	2.5-<5%
CAS: 9004-70-0	cellulose nitrate Expl. 1.1, H201	2.5-<5%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-<5%

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EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	Flam. Liq. 3, H226 STOT SE 3, H336	
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-<2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	<2.5%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<1%

Additional information:
CAS 9004-70-0: GB CLP Note T
For the wording of the listed hazard phrases refer to section 16.

4– FIRST - AID MEASURE

Description of first aid measures
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Generally the product does not irritate the skin.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5– FIRE - FIGHTING MEASURE

Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

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- **Advice for firefighters -**
  Protective equipment: Mouth respiratory protective device.

6– ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7– HANDLING AND STORAGE

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection:
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Storage class: 2 B
Specific end use(s) No further relevant information available.

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8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Ingredients with limit values that require monitoring at the workplace:		
67-64-1 acetone		
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm	
115-10-6 dimethyl ether		
WEL	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm	
123-86-4 n-butyl acetate		
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
106-97-8 butane (containing < 0,1 % butadiene (203-450-8))		
WEL	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)	
13463-67-7 titanium dioxide		
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable	
108-65-6 2-methoxy-1-methylethyl acetate		
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk	
71-36-3 butan-1-ol		
WEL	Short-term value: 154 mg/m³, 50 ppm Sk	
67-63-0 propan-2-ol		
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm	
DNELs		
67-64-1 acetone		
Oral	DNEL	62 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	62 mg/kg /per day (Consumer, longterm systemic)
	DNEL	186 mg/kg /per day (Worker, longterm systemic)
Inhalative	DNEL	2420 mg/m3 (Worker, acute local)
	DNEL	1210 mg/m3 (Worker, longterm systemic)
	DNEL	200 mg/m3 (Consumer, longterm systemic)
	DNEL	60 mg/m3
123-86-4 n-butyl acetate		

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Oral	DNEL	2 mg/kg /per day (Consumer, longterm systemic)
	DNEL	2 mg/kg /per day (Consumer, acute systemic)
Dermal	DNEL	11 mg/kg /per day (Worker, longterm systemic)
	DNEL	11 mg/kg /per day (Worker, acute systemic)
	DNEL	6 mg/kg /per day (Consumer, longterm systemic)
	DNEL	6 mg/kg /per day (Consumer, acute systemic)
Inhalative	DNEL	300 mg/m3 (Worker, longterm systemic)
	DNEL	600 mg/m3 (Worker, acute systemic)
	DNEL	300 mg/m3 (Worker, longterm local)
	DNEL	600 mg/m3 (Worker, acute local)
	DNEL	35.7 mg/m3 (Consumer, longterm systemic)
	DNEL	300 mg/m3 (Consumer; acute systemic)
	DNEL	35.7 mg/m3 (Consumer, longterm local)
108-65-6 2-methoxy-1-methylethyl acetate		
Dermal	DNEL	796 mg/kg /per day (Worker, longterm systemic)
	DNEL	320 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	275 mg/m3 (Worker, longterm systemic)
	DNEL	33 mg/m3 (Consumer, longterm systemic)
71-36-3 butan-1-ol		
Dermal	DNEL	3.125 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	310 mg/m3 (Worker, longterm local)
	DNEL	55 mg/m3 (Consumer, longterm local)
67-63-0 propan-2-ol		
Oral	DNEL	26 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	888 mg/kg /per day (Worker, longterm systemic)
	DNEL	319 mg/kg /per day (Consumer, longterm systemic)
Inhalative	DNEL	500 mg/m3 (Worker, longterm systemic)
	DNEL	89 mg/m3 (Consumer, longterm systemic)
PNECs		
67-64-1 acetone		
PNEC	10.6 mg/l (Freshwater)	
PNEC	1.06 mg/l (Seawater)	
PNEC	21 mg/l (Sporadic release)	
PNEC	100 mg/l (Sewage treatment plant)	
PNEC	30.4 mg/kg (Freshwater sediment)	
PNEC	3.04 mg/kg (Seawater sediment)	
PNEC	29.5 mg/kg (Soil)	
123-86-4 n-butyl acetate		

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PNEC	0.18 mg/l (Freshwater)
PNEC	0.018 mg/l (Seawater)
PNEC	0.36 mg/l (Sporadic release)
PNEC	35.6 mg/l (Sewage treatment plant)
PNEC	0.981 mg/kg (Freshwater sediment)
PNEC	0.0981 mg/kg (Seawater sediment)
PNEC	0.0903 mg/kg (Soil)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC	0.635 mg/l (Freshwater)
PNEC	0.064 mg/l (Seawater)
PNEC	100 mg/l (Sewage treatment plant)
PNEC	3.29 mg/kg (Freshwater sediment)
PNEC	0.329 mg/kg (Seawater sediment)
PNEC	0.29 mg/kg (Soil)
71-36-3 butan-1-ol	
PNEC	0.082 mg/l (Freshwater)
PNEC	0.0082 mg/l (Seawater)
PNEC	2.25 mg/l (Sporadic release)
PNEC	2476 mg/l (Sewage treatment plant)
PNEC	0.178 mg/kg (Freshwater sediment)
PNEC	0.0178 mg/kg (Seawater sediment)
PNEC	0.015 mg/kg (Soil)
67-63-0 propan-2-ol	
PNEC	140.9 mg/l (Freshwater)
PNEC	140.9 mg/l (Seawater)
PNEC	140.9 mg/l (Sporadic release)
PNEC	2251 mg/l (Sewage treatment plant)
PNEC	552 mg/kg (Freshwater sediment)
PNEC	552 mg/kg (Seawater sediment)

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

Exposure controls

Appropriate engineering controls: No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Avoid contact with the eyes.

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- **Respiratory protection:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  Filter A2/P3
  Hand protection: Protective gloves
  Material of gloves
  Butyl rubber, BR
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  Penetration time of glove material:
  Butyl rubber gloves with a thickness of 0.4 mm are resistant to:
  Acetone: 480 min
  Butyl acetate: 60 min
  Ethyl acetate: 170 min
  Xylene: 42 min
  Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.
  Eye/face protection: Tightly sealed goggles

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
General Information:	
Physical state	Aerosol
Colour:	Different according to colouring
Odour:	Solvent-like
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Not applicable, as aerosol.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1.2 Vol %
Upper:	26.2 Vol %
Flash point:	Not applicable, as aerosol.
Auto-ignition temperature:	240 °C (464 °F)
Decomposition temperature:	Not determined.

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pH	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C (68 °F):	4000 hPa (3000.2 mm Hg)
Density and/or relative density	
Density at 20 °C (68 °F):	0.8 g/cm³ (6.7 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Other information	
Appearance:	
Form:	Aerosol
Important information on protection of health and environment, and on safety.	
Explosive properties:	Not determined.
Solvent content:	
Organic solvents:	82.9 %
Water:	0.3 %
VOC (EC)	--- 654.6 g/l
VOC-EU%	82.86 %
Solids content:	12.2 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classes:	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	

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flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

10– STABILITY AND REACTIVITY

Reactivity No further relevant information available.
Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions No dangerous reactions known.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

11– TOXILOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/l (rat)
Inhalative	LC50 / 96 h	5540 mg/l (oncorhynchus mykiss)
123-86-4 n-butyl acetate		
Oral	LD50	10800 mg/kg (rat) (OECD 401)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>21 mg/m3 (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8530 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>10000 mg/m3 (rat)
71-36-3 butan-1-ol		

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Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3430 mg/kg (rabbit)
Inhalative	LC50 / 4h	17000 mg/m3 (rat)
67-63-0 propan-2-ol		
Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50	>25 mg/l (rat) LC 50: 6h

Skin corrosion/irritation: No irritant effect.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: No sensitising effects known.
STOT-single exposure: May cause drowsiness or dizziness.
Information on other hazards.

Endocrine disrupting properties
None of the ingredients is listed.

12 – ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:	
67-64-1 acetone	
LC50/96h EC50/96h LC50 / 48 h	8300 mg/l (fish) 7200 mg/l (algae) 8450 mg/l (crustacean (water flea))
115-10-6 dimethyl ether	
EC50 / 96 h LC50 / 48 h LC50 / 96 h	155 mg/l (algae) >4000 mg/l (daphnia magna) >4000 mg/l (fish)
108-65-6 2-methoxy-1-methylethyl acetate	
EC50 / 48 h LC50 / 96 h	>500 mg/l (daphnia magna) 100-180 mg/l (oncorhynchus mykiss)
71-36-3 butan-1-ol	
LC50 / 96 h	1376 mg/l (fish)
67-63-0 propan-2-ol	
LC50/96h LC50 / 24 h	9640 mg/l (pimephales promelas; 96h) 9714 mg/l (daphnia magna)

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7779-90-0 trizinc bis(orthophosphate)	
EC50 / 48 h	0.33 mg/l (crustaceans)
LC50 / 96 h	0.37 mg/l (fish)

Persistence and degradability: No further relevant information available.
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
Endocrine disrupting properties:
The product does not contain substances with endocrine disrupting properties.
Other adverse effects
Remark: Harmful to fish
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

13– DISPOSAL CONSIDERATION

Waste treatment methods
Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14– TRANSPORT INFORMATION

UN Number or ID number
ADR, IMDG, IATA UN1950

UN proper shipping name
ADR 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable

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Transport hazard class(es)

ADR

Class	2 5F Gases.
Label	2.1

IMDG, IATA

Class	2.1 Gases
Label	2.1

Packing group

ADR, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Gases.

Hazard identification number (Kemler code): -

EMS Number:	F-D,S-U
Stowage Code:	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code:	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
Maritime transport in bulk according to IMO instruments:	Not applicable.

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69115 HEIDELBERG
GERMANY

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FAX 0049 (0) 6221 - 520 449
MAIL INFO@CHAMAELEON-PRODUKTION.DE
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- **Transport/Additional information:**

ADR

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

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

UN "Model Regulation": UN 1950 AEROSOLS, 2.1

15 – REGULATORY INFORMATION

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

Regulated explosives precursors		
None of the ingredients is listed.		
Regulated poisons		
None of the ingredients is listed.		
Reportable explosives precursors		
67-64-1	acetone	Listed
Reportable poisons		
None of the ingredients is listed.		

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category: P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16-OTHER INFORMATION

Relevant phrases
H201 Explosive; mass explosion hazard.

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- H220 Extremely flammable gas.
  H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
  H280 Contains gas under pressure; may explode if heated.
  H302 Harmful if swallowed.
  H315 Causes skin irritation.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
  H336 May cause drowsiness or dizziness.
  H351 Suspected of causing cancer.
  H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
  EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Data is based on internal technical data and technical data from suppliers.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Expl. 1.1: Explosives – Division 1.1
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas

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- Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Carc. 2: Carcinogenicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.