COLOUR PRIMER

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 10/24/2019 Revision date: 10/24/2019 Supersedes: 7/13/2016 Version: 2.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: COLOUR PRIMER
Product code	: CP3001, -02, -03…-27
Type of product	: Aerosol
Vaporizer	: Container fitted with a sealed spray attachment
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial use,Professional use,Consumer use
Industrial/Professional use spec	: Wide dispersive use
Use of the substance/mixture	: Spraying paint (spray can)
Function or use category	: Adhesives, binding agents, Fixing agents

1.2.2. Uses advised against

Recommended use are listed above; other uses are not recommended unless an assessment has provided that risks are controlled.

1.3. Details of the supplier of the safety data sheet

Supplier

The Army Painter ApS
Nydamsvej 1, port 10
DK-8362 Hoerning
T +45 28 91 16 56
contact@thearmypainter.com

1.4. Emergency telephone number

Danish Poison Center (Giftlinjen): +45 82 12 12 12

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]

Aerosol, Category 1	H222;H229
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. High concentration of vapours may induce: headache, nausea, dizziness. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07

Signal word (CLP)	: Danger
Hazardous ingredients	: n-butyl acetate; methyl acetate
Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) : 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 spray, mist.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.
P501 - Dispose of contents and container to according to national regulations..

2.3. Other hazards

Other hazards not contributing to the classification : Contains gas under pressure; may explode if heated.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Informations : Composition/ Information on ingredients:
Aerosol jet
Solvents

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
methyl acetate (Solvent)	(CAS-No.) 79-20-9 (EC-No.) 201-185-2 (EC Index-No.) 607-021-00-X (REACH-no) 01-2119459211-47	>= 25 < 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
propane (Propellant gas)	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	>= 20 < 25	Flam. Gas 1, H220 Press. Gas
n-butyl acetate (Solvent)	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1 (REACH-no) 01-2119485493-29	>= 10 < 12,5	Flam. Liq. 3, H226 STOT SE 3, H336
butane (Propellant gas, see note [*])	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119480480-41	>= 10 < 12,5	Flam. Gas 1, H220 Press. Gas
isobutane (Propellant gas)	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119480480-41	>= 3 < 5	Flam. Gas 1, H220 Press. Gas
methanol (Solvent)	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	>= 1 < 3	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
2-butoxyethanol (Solvent)	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	>= 1 < 3	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits**
methanol (Solvent)	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	(3 =<C < 10) STOT SE 2, H371 (10 =<C < 100) STOT SE 1, H370

Informations : Note [*]:

This product contains < 0.1 % w/w of 1.3 butadiene (EINECS 203-450-8). According to the criteria laid out by the EU (note K - Annex VI Reg (CE) 1272/2008), this product must be regarded as non-carcinogenic and non-mutagenic.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash skin with plenty of water and soap. If skin irritation or rash occurs, get medical advice/attention.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Protect uninjured eye. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If accidentally swallowed obtain immediate medical attention. Do not give anything to drink. Do not induce vomiting.

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

Symptoms/effects after inhalation : In case of massive inhalation : Dizziness, headaches, nausea.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/effects upon intravenous administration : None under normal conditions.

Chronic symptoms : None to our knowledge.

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

Treat symptomatically. Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream. Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol. Heating may cause a fire or explosion.

Explosion hazard : Contains gas under pressure; may explode if heated. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : On burning: release of carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire : Move containers from fire area if it can be done without personal risk.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus and chemically protective clothing. EN 443. EN 469. EN 659. Do not attempt to take action without suitable protective equipment.

Other information : Do not breathe fumes from fires or vapours from decomposition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required. Refer to protective measures listed in Sections 7 and 8.
Emergency procedures	: Ventilate area. Stop leak if safe to do so. Stop release.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid disposing into drainage/sewer system or directly into the aquatic environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
Methods for cleaning up	: Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Wash away remainder with plenty of water.
Other information	: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Container under pressure. Do not drill or burn even after use.
Precautions for safe handling	: Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not breathe spray.
Hygiene measures	: Ensure that proper housekeeping measures are in place. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use adequate personal protective equipment as needed.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: None under normal conditions.
Storage area	: Store in a well-ventilated place. Store away from heat.
Packages and containers:	: Store in a closed container. Keep only in original container.

7.3. Specific end use(s)

Decorative paint spray for domestic, industrial and professional.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl acetate (79-20-9)	
France - Occupational Exposure Limits	
VME (mg/m³)	610 mg/m³
VME (ppm)	200 ppm
VLE (mg/m³)	760 mg/m³
VLE (ppm)	250 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	100 ppm
TRGS 900 Limitation of exposure peaks (mg/m³)	1240 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	400 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	616 mg/m³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m³)	770 mg/m³
VLA-EC (ppm)	250 ppm

methyl acetate (79-20-9)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	616 mg/m³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m³)	770 mg/m³
WEL STEL (ppm)	250 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TLV®-TWA (ppm)	200 ppm
ACGIH TLV®-STEL (ppm)	250 ppm

propane (74-98-6)	
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	1800 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
TRGS 900 Limitation of exposure peaks (mg/m³)	7200 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	4000 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m³)	1800 mg/m³
OEL TWA (ppm)	1000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (ppm)	1000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m³)	1800 mg/m³
ACGIH TLV®-TWA (ppm)	1000 ppm

n-butyl acetate (123-86-4)	
France - Occupational Exposure Limits	
VME (mg/m³)	710 mg/m³
VME (ppm)	150 ppm
VLE (mg/m³)	940 mg/m³
VLE (ppm)	200 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	480 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	100 ppm
TRGS 900 Limitation of exposure peaks (mg/m³)	960 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	724 mg/m³
VLA-ED (ppm)	150 ppm
VLA-EC (mg/m³)	965 mg/m³
VLA-EC (ppm)	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	724 mg/m³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m³)	966 mg/m³
WEL STEL (ppm)	200 ppm

n-butyl acetate (123-86-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TLV®-TWA (ppm)	150 ppm
ACGIH TLV®-STEL (ppm)	200 ppm

butane (106-97-8)	
France - Occupational Exposure Limits	
VLE (mg/m³)	1900 mg/m³
VLE (ppm)	800 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	2400 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
Greece - Occupational Exposure Limits	
OEL TWA (mg/m³)	2350 mg/m³
OEL TWA (ppm)	1000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (ppm)	800 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	1450 mg/m³
WEL TWA (ppm)	600 ppm
WEL STEL (mg/m³)	1810 mg/m³
WEL STEL (ppm)	750 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH STEL (mg/m³)	2377 mg/m³
ACGIH TLV®-STEL (ppm)	1000 ppm

isobutane (75-28-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	2400 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
TRGS 900 Limitation of exposure peaks (mg/m³)	9600 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	4000 ppm
Switzerland - Occupational Exposure Limits	
KZGW (mg/m³)	1900 mg/m³
KZGW (ppm)	800 ppm

methanol (67-56-1)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m³)	260 mg/m³
IOELV TWA (ppm)	200 ppm
France - Occupational Exposure Limits	
VME (mg/m³)	260 mg/m³
VME (ppm)	200 ppm
VLE (mg/m³)	1300 mg/m³
VLE (ppm)	1000 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	270 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	200 ppm

methanol (67-56-1)	
TRGS 900 Limitation of exposure peaks (mg/m³)	1080 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	800 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m³)	260 mg/m³
OEL TWA (ppm)	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	266 mg/m³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m³)	333 mg/m³
VLA-EC (ppm)	250 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	266 mg/m³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m³)	333 mg/m³
WEL STEL (ppm)	250 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TLV®-TWA (ppm)	200 ppm
ACGIH TLV®-STEL (ppm)	250 ppm

2-butoxyethanol (111-76-2)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m³)	98 mg/m³
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m³)	246 mg/m³
IOELV STEL (ppm)	50 ppm
France - Occupational Exposure Limits	
VME (mg/m³)	49 mg/m³
VME (ppm)	10 ppm
VLE (mg/m³)	246 mg/m³
VLE (ppm)	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Occupational exposure limit value (mg/m³)	49 mg/m³
TRGS 900 Occupational exposure limit value (ppm)	10 ppm
TRGS 900 Limitation of exposure peaks (mg/m³)	196 mg/m³
TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m³)	98 mg/m³
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m³)	246 mg/m³
OEL STEL (ppm)	50 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	98 mg/m³
VLA-ED (ppm)	20 ppm
VLA-EC (mg/m³)	245 mg/m³
VLA-EC (ppm)	50 ppm

2-butoxyethanol (111-76-2)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	123 mg/m³
WEL TWA (ppm)	25 ppm
WEL STEL (mg/m³)	246 mg/m³
WEL STEL (ppm)	50 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TLV®-TWA (ppm)	20 ppm

Monitoring methods	
Monitoring methods	Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts.

RITOCCHI CARROZZERIA	
DNEL/DMEL (additional information)	
Additional information	Not applicable
PNEC (additional information)	
Additional information	Not applicable

methyl acetate (79-20-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	88 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	610 mg/m³
Long-term - local effects, inhalation	305 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	44 mg/kg bodyweight/day
Long-term - systemic effects, dermal	44 mg/kg bodyweight/day
Long-term - local effects, inhalation	152 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	120 µg/L
PNEC aqua (marine water)	12 µg/L
PNEC aqua (intermittent, freshwater)	1.2 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	128 mg/kg dwt
PNEC sediment (marine water)	12.8 mg/kg dwt
PNEC (Soil)	
PNEC soil	41.6 µg/kg dw
PNEC (Oral)	
PNEC oral (secondary poisoning)	20.4 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	600 mg/l

n-butyl acetate (123-86-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	11 mg/kg bodyweight/day
Acute - systemic effects, inhalation	600 mg/m³
Acute - local effects, inhalation	600 mg/m³
Long-term - systemic effects, dermal	7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	48 mg/m³

n-butyl acetate (123-86-4)	
Long-term - local effects, inhalation	300 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	35.7 mg/m³
Acute - local effects, inhalation	300 mg/m³
Long-term - systemic effects,oral	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12 mg/m³
Long-term - systemic effects, dermal	3.4 mg/kg bodyweight/day
Long-term - local effects, dermal	6 mg/kg bw/day
Long-term - local effects, inhalation	300 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	180 µg/L
PNEC aqua (marine water)	18 µg/L
PNEC aqua (intermittent, freshwater)	360 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	981 µg/kg dw
PNEC sediment (marine water)	98.1 µg/kg dw
PNEC (Soil)	
PNEC soil	90.3 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	35.6 mg/l

methanol (67-56-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	260 mg/m³
Acute - local effects, inhalation	260 mg/m³
Long-term - systemic effects, dermal	40 mg/kg bodyweight/day
Long-term - local effects, dermal	40 mg/kg bw/day
Long-term - systemic effects, inhalation	260 mg/m³
Long-term - local effects, inhalation	260 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	50 mg/m³
Acute - local effects, inhalation	50 mg/m³
Long-term - systemic effects,oral	8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day
Long-term - local effects, dermal	8 mg/kg bw/day
Long-term - local effects, inhalation	50 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	20.8 mg/l
PNEC aqua (marine water)	2.08 mg/l
PNEC aqua (intermittent, freshwater)	1540 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	77 mg/kg dwt
PNEC sediment (marine water)	7.7 mg/kg dwt

methanol (67-56-1)	
PNEC (Soil)	
PNEC soil	100 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

2-butoxyethanol (111-76-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	89 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1091 mg/m³
Acute - local effects, inhalation	246 mg/m³
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	98 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	89 mg/kg bodyweight
Acute - systemic effects, inhalation	426 mg/m³
Acute - local effects, inhalation	147 mg/m³
Long-term - systemic effects,oral	6.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	59 mg/m³
Long-term - systemic effects, dermal	75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	8.8 mg/l
PNEC aqua (marine water)	0.88 mg/l
PNEC aqua (intermittent, freshwater)	26.4 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	34.6 mg/kg dwt
PNEC sediment (marine water)	3.46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.33 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	20 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	463 mg/l

Note : The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety practice. In case of contact with the eyes : Eyewash bottle with clean water.

Personal protective equipment:

Protective clothing. Protective goggles. Dust/aerosol mask. Gloves.

Hand protection:
Protective gloves. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard.

Eye protection:
Use eye protection according to EN 166, designed to protect against spray mists. (recommended)

Skin and body protection:
Long protective gloves, which go over the sleeves. EN ISO 6529. EN ISO 13287

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV. Combined gas/dust mask with filter type. Filter AX (brown). Filter P (white)

Personal protective equipment symbol(s):

Thermal hazard protection:

Not necessary under the recommended storage and handling conditions.

Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

Consumer exposure controls:

Avoid all eye and skin contact and do not breathe vapour and mist.

Other information:

None.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: < 0 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: 8 bar
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.75 - 0.8 g/ml
Solubility	: soluble in most organic solvents. insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available

9.2. Other information

VOC content : 582.6 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Overheating. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Elevated temperature.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

methyl acetate (79-20-9)	
LD50 oral rat	6482 mg/kg
LD50 dermal rat	2000 mg/kg

n-butyl acetate (123-86-4)	
LD50 oral rat	> 6400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	21.1 mg/l/4h

methanol (67-56-1)	
LD50 oral rat	1187 - 2769 mg/kg
LC50 inhalation rat (mg/l)	115.9 - 130.7 mg/l/4h

2-butoxyethanol (111-76-2)	
LD50 oral rat	1414 mg/kg bodyweight
LD50 dermal rabbit	435 - 2000 mg/kg bodyweight
LC50 inhalation rat (ppm)	450 - 900 ppm/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not available

Additional information : Dependent on the composition

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not available

Additional information : Dependent on the composition

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition
This product contains < 0.1 %wt of 1.3 butadiene (EINECS 203-450-8) (note K - Annex VI Reg (CE) 1272/2008)
Not mutagenic

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information	: Dependent on the composition This product contains < 0.1 % wt of 1.3 butadiene (EINECS 203-450-8). According to the criteria laid out by the EU, this product must be regarded as non carcinogenic.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Dependent on the composition
STOT-single exposure	: May cause drowsiness or dizziness.
Additional information	: Dependent on the composition In the event of exposure to high concentrations : Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Dependent on the composition
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Dependent on the composition

RITOCCHI CARROZZERIA	
Vaporizer	Container fitted with a sealed spray attachment

Potential adverse human health effects and symptoms	: Irritation: severely irritant to eyes. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.
Other information	: No available data.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Handle in accordance with good industrial hygiene and safety practice.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

methyl acetate (79-20-9)	
LC50 fish 1	250 - 350 mg/l
EC50 Daphnia 1	1.027 g/l
EC50 72h algae (1)	120 mg/l

n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l
EC50 Daphnia 1	32 - 44 mg/l
EC50 72h algae (1)	246 - 674.7 mg/l

methanol (67-56-1)	
LC50 fish 1	15.4 g/l
EC50 96h algae (1)	22 mg/l

2-butoxyethanol (111-76-2)	
LC50 fish 1	1.474 g/l
EC50 Daphnia 1	1.55 - 1.8 g/l
EC50 72h algae (1)	911 - 1840 mg/l
NOEC chronic fish	100 mg/l
NOEC chronic crustacea	100 mg/l

12.2. Persistence and degradability

RITOCCHI CARROZZERIA	
Persistence and degradability	Paraffinic hydrocarbons may be considered biodegradable in water and in the air. They distribute mainly in the air. The small amount that is distributed in water and is not biodegradable accumulates in the fish.

methyl acetate (79-20-9)	
Persistence and degradability	Readily biodegradable.

propane (74-98-6)	
Persistence and degradability	Readily biodegradable.

butane (106-97-8)	
Persistence and degradability	Readily biodegradable.

2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

RITOCCHI CARROZZERIA	
Bioaccumulative potential	Not available.

methyl acetate (79-20-9)	
Log Kow	0.18

propane (74-98-6)	
Log Kow	1.09

n-butyl acetate (123-86-4)	
Bioconcentration factor (BCF REACH)	15.3
Log Kow	2.3

butane (106-97-8)	
Log Kow	1.09

2-butoxyethanol (111-76-2)	
Log Kow	0.81

12.4. Mobility in soil

RITOCCHI CARROZZERIA	
Ecology - soil	Not available.

methyl acetate (79-20-9)	
Log Koc	0.18

n-butyl acetate (123-86-4)	
Log Koc	< 3

12.5. Results of PBT and vPvB assessment

RITOCCHI CARROZZERIA
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Sewage disposal recommendations : Prevent runoff from entering water courses, sewers and basements.

Product/Packaging disposal recommendations : Container under pressure. Do not drill or burn even after use. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Additional information : Flammable vapours may accumulate in the container. Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

European List of Waste (LoW) code : 14 06 00 - waste organic solvents, refrigerants and foam/aerosol propellants

SECTION 14: Transport information

In accordance with ADN / ADR / IATA / IMDG / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS (AEROSOLS)	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS (AEROSOLS), 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Subject to the provisions

Classification code (ADR) : 5F

Limited quantities (ADR) : 1l

Excepted quantities (ADR) : E0

Transport category (ADR) : 2

Tunnel restriction code (ADR) : D

Transport by sea

Transport regulations (IMDG) : Subject to the provisions

Excepted quantities (IMDG) : E0

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

Air transport

Transport regulations (IATA) : Subject to the provisions

PCA Excepted quantities (IATA) : E0

PCA limited quantity max net quantity (IATA) : 30kgG

Inland waterway transport

Transport regulations (ADN) : Subject to the provisions

Classification code (ADN) : 5F
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E0

Rail transport

Transport regulations (RID) : Subject to the provisions
Classification code (RID) : 5F
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Transport category (RID) : 2
Hazard identification number (RID) : 23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code : Not applicable (refer to Annex I of the MARPOL Convention).

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
3(a)	RITOCCHI CARROZZERIA ; n-butyl acetate ; methyl acetate ; methanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	RITOCCHI CARROZZERIA ; n-butyl acetate ; methyl acetate ; methanol ; 2-butoxyethanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
40.	propane ; n-butyl acetate ; methyl acetate ; methanol ; butane ; isobutane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
69.	methanol	Methanol

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 582.6 g/l
Other information, restriction and prohibition regulations : Regulation (EC) n. 1005/2009 on substances that deplete the ozone layer. Regulation (EC) n. 649/2012 on the export and import of dangerous chemicals. Regulation (EC) n. 850/2004 on persistent organic pollutants.

Directive 2012/18/EU (SEVESO III)
Seveso Additional information : Seveso category: P3a

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.
National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)
VbF class : A I - Liquids with a flashpoint below 21°C
Storage class (LGK) : LGK 2B - Aerosols

Employment restrictions	: Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed. Employment prohibitions and restrictions according to § 11 and § 12 MuSchG have to be observed.
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Other information, restrictions and prohibition regulations	: TRGS 400: Hazard assessment for activities involving Hazardous Substances TRGS 401: Risks resulting from skin contact - identification, assessment, measures TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure TRGS 407: Activities involving gases - hazard assessment TRGS 500: Protective measures TRGS 510: Storage of hazardous substances in non-stationary containers TRGS 555: Working instruction and information for workers TRGS 725: Portable compressed-gas tanks - filling, keeping, internal transporting, emptying TRGS 800: Fire protection measures TRGS 900: Occupational Exposure Limits

Netherlands

Saneringsinspanningen	: C - Minimize discharge
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Danish National Regulations	: Young people under 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with it

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been not carried out

For the following substances of this mixture a chemical safety assessment has been carried out
propane n-butyl acetate methyl acetate methanol butane isobutane 2-butoxyethanol

SECTION 16: Other information

Indication of changes:
All sections.

Abbreviations and acronyms:	
	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.
	N/D = not available
	N/A = not applicable
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet. This Safety Data Sheet has been established in accordance with the applicable European Union legislation. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens).

Training advice : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet. Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : The product should not be used for purposes other than those shown above without first referring to the supplier and obtaining written handling instructions.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Press. Gas	Gases under pressure
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H371	May cause damage to organs.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aerosol 1	H222;H229	On basis of test data
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.