Fast Fix Primer 50ml

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

1.1. Product identifier

Trade name/designation:

Fast Fix Primer 50ml

Article No.:
T501014

UFI:
2SW0-64QU-386Q-X2FN

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

Use of the substance/mixture:
Primer

*

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

Fast Fix Primer 50ml

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard



GHS09
Environment

Signal word: Danger

Hazard components for labelling:
heptane

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards	
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
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.

Precautionary statements Response	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statements Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

*

3.2. Mixtures

Description:
Active ingredient mixture with propellant gas

Fast Fix Primer 50ml

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 142-82-5 EC No.: 205-563-8 Index No.: 601-008-00-2 REACH No.: 01-2119457603-38	**heptane** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	> 30 – ≤ 50 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	**butane** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger **Acute Toxicity Estimate** ATE (oral) ≥ 5,000 mg/kg ATE (dermal) ≥ 5,000 mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	> 30 – ≤ 50 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	**propane** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger **Acute Toxicity Estimate** ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	> 5 – ≤ 15 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	**Isobutane** Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger **Acute Toxicity Estimate** ATE (inhalation, vapour) 1,237 mg/L	> 5 – ≤ 15 Vol-%
CAS No.: 111-84-2 EC No.: 203-913-4	**nonane** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	≥ 0.025 – < 0.25 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Immediately remove any contaminated clothing, shoes or stockings.

Following inhalation:
Fresh air supply, respiratory care if necessary, warmth. Consult a doctor if symptoms persist.
If unconscious, position and transport in stable lateral position.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if symptoms persist.

After eye contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Following ingestion:
Rinse out mouth immediately and drink plenty of water.
Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2), Extinguishing powder, Water spray jet.
Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Water in full jet

5.2. Special hazards arising from the substance or mixture

May form explosive gas-air mixtures.
Formation of toxic gases when heated or in case of fire.

Hazardous combustion products:

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)
Risk of formation of toxic pyrolysis products.
Under certain fire conditions, traces of other toxic substances cannot be excluded.

5.3. Advice for firefighters

Special protective equipment for firefighters:
Wear self-contained breathing apparatus.
Do not inhale explosion and combustion gases.

5.4. Additional information

Cool endangered containers with water spray. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear protective equipment. Keep unprotected persons away.
Provide adequate ventilation.
Keep away from sources of ignition - No smoking.
Avoid contact with eyes and skin.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

In case of spillage into water or sewage system, inform the competent authorities.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Provide adequate ventilation. Dispose of the ingested material in accordance with the regulations.

6.4. Reference to other sections

See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

6.5. Additional information

Vapours can form explosive mixtures with air.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Ensure good ventilation/extraction at the workplace.
Ensure good room ventilation also in the floor area (vapours are heavier than air).

Fire prevent measures:
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharge.
Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.
Do not spray against a flame or on a glowing object.
Formation of explosive mixtures possible without adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
The official regulations for the storage of pressurised gas packages must be observed.
Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters
Further information on storage conditions:
Protect from heat and direct sunlight. Store in a cool dry place. Pressurised container: May burst if heated.

7.3. Specific end use(s)

Recommendation:
No further relevant information available.

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 25 Sept 2018	**heptane** CAS No.: 142-82-5 EC No.: 205-563-8	① 500 ppm (2,000 mg/m³)
IOELV (EU)	**heptane** CAS No.: 142-82-5 EC No.: 205-563-8	① 500 ppm (2,085 mg/m³)
MAK (AT) from 26 Sept 2018	**heptane** CAS No.: 142-82-5 EC No.: 205-563-8	② 2,000 ppm (8,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**butane** CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m³)
MAK (AT)	**butane** CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	**propane** CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m³)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**Isobutane** CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	**Isobutane** CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m³)

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
heptane CAS No.: 142-82-5 EC No.: 205-563-8	2,085 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
heptane CAS No.: 142-82-5 EC No.: 205-563-8	447 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
heptane CAS No.: 142-82-5 EC No.: 205-563-8	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
heptane CAS No.: 142-82-5 EC No.: 205-563-8	149 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
heptane CAS No.: 142-82-5 EC No.: 205-563-8	149 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls
No data available

8.2.2. Personal protection equipment

Skin protection:

Hand protection:
Wear protective gloves. (EN 374)
Check protective gloves for proper condition before each use.
The glove material must be impermeable and resistant to the product / substance / preparation.
Selection of the glove material considering the breakthrough times, permeation rates and degradation.
Glove material:
Breakthrough time: 480 min.
Chloroprene Nitrile I, Nr. 0727
Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739, 0836
Viton, Nr. 0890

Breakthrough time: 240 min.
Chloroprene Nitrile II, Nr. 0717

Breakthrough time: 120 min.
Nitril VI, Nr. 0754

This recommendation is based exclusively on chemical compatibility and testing according to EN 374 under laboratory conditions. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account. The selection

of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Respiratory protection:
In case of inadequate ventilation wear respiratory protection.
Filter AX

Other protection measures:
General protective and hygienic measures:
The usual precautions when handling chemicals must be observed.
Keep away from food, drink and animal feed.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls
No data available

8.3. Additional information
No further relevant information available.

SECTION 9: Physical and chemical properties

*
9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol
Colour: transparent
Odour: characteristic
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	< 0 °C		
Flash point	< 0 °C		
Evaporation rate	*No data available*		
Vapour pressure	*No data available*		
Density	0.7 g/cm³	20 °C	
Water solubility	Immiscible		
Self ignition temperature	*not applicable*		② The product is not self-igniting.

9.2. Other information
Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use. Formation of explosive mixtures possible without adequate ventilation.

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition/Conditions to avoid:
Protect from heat and direct sunlight.

10.3. Possibility of hazardous reactions
Heating causes rise in pressure with risk of bursting. Formation of explosive mixtures possible without adequate ventilation.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

butane CAS No.: 106-97-8 EC No.: 203-448-7
LD_{50} oral: ≥5,000 mg/kg (Rat)
LD_{50} dermal: ≥5,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

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

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

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

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

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

STOT-single exposure:
May cause drowsiness or dizziness.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
May be fatal if swallowed and enters airways.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

*

12.1. Toxicity

butane CAS No.: 106-97-8 EC No.: 203-448-7
LC_{50}: 49.9 mg/L 4 d (fish)
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia sp.) Calculation with the ECOSAR programme v1.00.
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00

propane CAS No.: 74-98-6 EC No.: 200-827-9	
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)	
LC_{50}: 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)	
LC_{50}: 49.9 mg/L 4 d (fish)	
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)	
EC_{50}: 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)	
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.	
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)	
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.	
LOEC: 1,000 mg/L (Algae/water plant, Algae)	
LOEC: 1,000 mg/L (Algae/water plant, Alge)	
IC_{50}: 11.3 mg/L 3 d (Algae/water plant)	
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2	
LC_{50}: 91.42 mg/L 4 d (fish)	
EC_{50}: 69.43 mg/L 2 d (crustaceans, Daphnia sp.)	
ErC_{50}: 19.37 mg/L 4 d (Algae/water plant)	

Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability

butane CAS No.: 106-97-8 EC No.: 203-448-7	
Biodegradation: Yes, rapidly	
propane CAS No.: 74-98-6 EC No.: 200-827-9	
Biodegradation: Yes, rapidly	

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

butane CAS No.: 106-97-8 EC No.: 203-448-7	
Log K_{OW}: 1.09	
propane CAS No.: 74-98-6 EC No.: 200-827-9	
Log K_{OW}: 1.09	
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2	
Log K_{OW}: 1.09	

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

heptane CAS No.: 142-82-5 EC No.: 205-563-8	
Results of PBT and vPvB assessment: —	
butane CAS No.: 106-97-8 EC No.: 203-448-7	
Results of PBT and vPvB assessment: —	
propane CAS No.: 74-98-6 EC No.: 200-827-9	
Results of PBT and vPvB assessment: —	
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2	
Results of PBT and vPvB assessment: —	
nonane CAS No.: 111-84-2 EC No.: 203-913-4	
Results of PBT and vPvB assessment: —	

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
None of the ingredients are included.

12.7. Other adverse effects
Very toxic for fish.
Very toxic to aquatic life.
Drinking water hazard even when small quantities leak into the subsoil.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

16 05 04 *	Gases in pressure containers (including halons) containing hazardous substances

**: Evidence for disposal must be provided.*

Waste treatment options
Appropriate disposal / Package:
Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS, ENVIRONMENTALLY HAZARDOUS (heptane)	AEROSOLS, ENVIRONMENTALLY HAZARDOUS (heptane)	AEROSOLS, MARINE POLLUTANT (heptane)	AEROSOLS, flammable (heptane)
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special Provisions: 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Tunnel restriction code:** (D)	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E0 **Classification code:** 5F **Remark:** Attention: Gases	**Special Provisions:** 63 | 190 | 277 | 327 | 344 | 381 | 959 **Limited quantity (LQ):** Siehe SV277 **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D, S-U	**Special Provisions:** A145 | A167 **Limited quantity (LQ):** Y203 **Excepted Quantities (EQ):** E0 **Remark:** Attention: Gases

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Remark: Attention: Gases		**Remark:** Attention: Gases	

14.7. Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

*

16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
12.1.	Toxicity
15.3.	Additional information
16.1.	Indication of changes

Limit value / limit values updated: SI

16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
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
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC_{50}	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization

IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	
aerosol dispensers and lighters *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials

is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.