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

- 1.1 Product identifier
- Trade name: 5100 Aerosol
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- Application of the substance / the mixture Activator
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41-58-272 0 272

- Further information obtainable from: Product safety department
- Department issuing MSDS: info@kisling.com
- 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

+49-700-24 112 112 (KAR)

+1 872 5888271

SECTION 2: Hazards identification

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

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

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways. Asp. Tox. 1 H304

H400 Aquatic Acute 1 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

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

- Hazard pictograms









GHS02

GHS07

GHS08 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

heptane

- Hazard statements

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

H315 Causes skin irritation.

May cause drowsiness or dizziness. H336

H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

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.

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P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P405 Store locked up.

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

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Active substance with propellant

- Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 30 - ≤ 50%
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	≥ 25 - ≤ 30%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 5 - ≤ 15%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 5 - ≤ 15%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Carc. 2, H351; STOT RE 2, H373; Aquatic Chronic 3, H412	≥ 0.1 - ≤ 1%

⁻ **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

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

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, 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.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

Fumes can combine with air to form an explosive mixture.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 10 for information on "stability and reactivity".

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Buildup of explosive mixtures possible without sufficient ventilation.

Do not spray onto a naked flame or any incandescent material.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

-7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Not required.

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- Further information about storage conditions:

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 2 B
- -7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.

Auditiona	n mioi ma	tion abo	ut uesign of technical facilities. No further data, see from 7.	
- Ingredien	ts with lin	nit value	s that require monitoring at the workplace:	
106-97-8 I	butane, pı	ıre		
MAK (Switzerland) Short-term value: 7600 mg/m³, 32		Short-te	rm value: 7600 mg/m³, 3200 ppm	
		Long-ter	rm value: 1900 mg/m³, 800 ppm	
142-82-5 l	heptane			
MAK (Switzerland) Short-ter		Short-te	rm value: 1600 mg/m³, 400 ppm	
		Long-ter	rm value: 1600 mg/m³, 400 ppm	
74-98-6 pi	ropane			
MAK (Sw	(Switzerland) Short-term value: 7200 mg/m³, 4000 ppm			
		Long-ter	rm value: 1800 mg/m³, 1000 ppm	
75-28-5 is	obutane			
MAK (Sw	itzerland)	Short-te	rm value: 7600 mg/m³, 3200 ppm	
		Long-ter	rm value: 1900 mg/m³, 800 ppm	
- DNELs				
142-82-5 l	heptane			
Oral	Longtern	System	149 mg/kg bw/day (General population)	
Dermal	Longtern	System	149 mg/kg bw/day (General population)	
			300 mg/kg bw/day (Worker)	
Inhalative	Longtern	System	447 mg/m³ (General population)	
			2,085 mg/m³ (Worker)	

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

Find below a list of appropriate protective gloves for chemical surrounding:

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Permeation time / penetration time: = 480 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

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Permeation time / penetration time: = 120 minutes (DIN EN 374):

Nitril VI, Nr. 0754

.

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Permeation time / penetration time: see above (material of gloves)

- Eye protection: Avoid contact with the eyes.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and ch	nemical properties
- General Information - Appearance:	
- Appearance: Form:	Aerosol
Colour:	Yellowish
- Odour:	Petrol-like
- Odour threshold:	Not determined.
- pH-value at 20 °C:	7
- Change in condition	
Melting point/freezing point:	Not applicable, as aerosol.
	Undetermined.
Initial boiling point and boiling range:	
	Undetermined.
- Flash point:	Not applicable, as aerosol.
-	Not applicable.
- Flammability (solid, gas):	Not applicable.
- Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not self-igniting.
- Explosive properties:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Buildup of explosive mixtures possible without sufficient
	ventilation.
- Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

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- Oxidising properties	Not determined.
- Vapour pressure:	Not determined.
- Density at 20 °C:	0.7 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not applicable.
- Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
- 9.2 Other information	The information applies to the active substance.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions

Danger of bursting.

Forms explosive gas mixture with air.

- 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 dangerous products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50	values rel	evant for classification:
106-97-8 l	outane, pu	re
Inhalative	LC50/4 h	658 mg/l (Rat, male/female)
99-97-8 N	99-97-8 N,N-dimethyl-p-toluidine	
Inhalative	LC50/4 h	1.4 mg/l (Rat, male/female)

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eve 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.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

May cause drowsiness or dizziness.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.

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

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- Remark: Very toxic for fish
- Additional ecological information:
- General notes:

Water hazard class (German Regulation) is valid for the active agent.

Also very poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- **Recommendation** Disposal must be made according to official regulations.
- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number	
- ADR, IMDG, IATA	UN1950
- 14.2 UN proper shipping name	
- ADR	1950 AEROSOLS, ENVIRONMENTALLY
	HAZARDOUS
- IMDG	AEROSOLS, MARINE POLLUTANT
- IATA	AEROSOLS, flammable
44070 (1 1 1 ()	

- 14.3 Transport hazard class(es)
- ADR



- Class 2 5F Gases.

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- Label	2.1
- IMDG	
- Class - Label	2 Gases. 2.1
- IATA	
- Class - Label	2.1 Gases. 2.1
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Product contains environmentally hazardous substance heptane
- Marine pollutant:- Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
 - 14.6 Special precautions for user - EMS Number: - Stowage Code - Segregation Code	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separated from" class 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.
- 14.7 Transport in bulk according to Ann Marpol and the IBC Code	
- Transport/Additional information:	
- ADR- Limited quantities (LQ)- Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
- Transport category - Tunnel restriction code	2 D
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity

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- UN "Model Regulation":

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity - Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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