



Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

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

- 1.1 Product identifier
- Trade name: ergo 9190 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 Cleaning agent/ Cleaner
- 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: ergo@kisling.com
- Department issuing MSDS: ergo@kisling.com
- 1.4 Emergency telephone number:

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

+49-700-24 112 112 (KAR)

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.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 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:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol

acetone

- Hazard statements

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

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways. H411 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.

(Contd. on page 2)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

(Contd. of page 1)

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

- Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

- Labelling of packages where the contents do not exceed 125 ml

- Hazard pictograms









GHS02

GHS07

GHS08 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol

acetone

- Hazard statements

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

May be fatal if swallowed and enters airways.

- 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.

P251 Do not pierce or burn, even after use.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do NOT induce vomiting.

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:			
EC number: 920-750-0 Index number: 649-328-00-1 Reg.nr.: 01-2119473851-33-xxxx	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	> 30 - ≤ 50%	
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥ 20 - ≤ 30%	
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	> 15 - < 20%	
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide	> 1 - ≤ 5%	

(Contd. on page 3)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

(Contd. of page 2)

- Regulation (EC) No 648/2004 on detergents:

aliphatic hydrocarbons

≥30%

- 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.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- 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.

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.

(Contd. on page 4)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

(Contd. of page 3)

- 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.

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.

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

Buildup of explosive mixtures possible without sufficient ventilation.

- 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.
- 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.

67-63-0 propan-2-ol		
MAK (Switzerland)	Short-term value: 1000 mg/m³, 400 ppm	
	Long-term value: 500 mg/m ³ , 200 ppm	
	B SSc;	
67-64-1 acetone		
MAK (Switzerland)	Short-term value: 2400 mg/m³, 1000 ppm	
	Long-term value: 1200 mg/m ³ , 500 ppm	
	B;	
124-38-9 carbon die	oxide	
MAK (Switzerland)	Long-term value: 9000 mg/m³, 5000 ppm	
	(Contd. on no	

(Contd. on page 5)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

DNELs				(Contd. of pa
DNELS 67-63-0 pi	onan-2-ol	İ		
_	_		26 mg/kg bw/day (General population)	
Dermal	U	•	319 mg/kg bw/day (General population)	
Dermai	Longterm	bystem	888 mg/kg bw/day (Worker)	
Inhalativa	holotiva I anatarm Systam		89 mg/m³ (General population)	
IIIIaiative	Longierin	System	500 mg/m³ (Worker)	
67-64-1 ac	etone		500 Hig/Hi ⁻ (Worker)	
Oral	Acute, Lo	ca1	62 mg/kg (General population)	
			62 mg/kg bw/day (General population)	
Dermai	Longterm	bystem	186 mg/kg bw/day (Worker)	
Inhalative	Acute I o	cal	2420 mg/m³ (Worker)	
			200 mg/m³ (General population)	
	Longierin	System	1210 mg/m³ (Worker)	
			1210 Hig/HP (WOLKEL)	
PNECs	2 1	1		
67-63-0 pr PNEC Free	-		0 //	
			9 mg/l	
PNEC Free			mg/kg	
PNEC Mar			9 mg/l	
PNEC Soil			ng/kg	
PNEC STI			l mg/l	
PNEC Mar		sed 552	mg/kg	
67-64-1 ac		110.6	T. A. C.	
PNEC Free			mg/l	
PNEC Free			mg/kg	
PNEC Mai		1	mg/l	
PNEC Soil			mg/kg	
PNEC STI			mg/l	
PNEC Mai				
Ingredien	ts with bio	ological	limit values:	
67-63-0 pr		L		
BAT (Swit		25 mg/l		
			rersuchungsmaterial: Urin	
			anahmezeitpunkt: Expositionsende bzw. Schichtende	
		31011 1 441		
Probennahme				
			ichungsmaterial: Vollblut	
			ahmezeitpunkt: Expositionsende bzw. Schichtende rameter: Aceton	
67-64-1 ac		5101. I al	unicon 11001011	
BAT (Swit		30 mg/l		
(~.,2,		_	hungsmaterial: Urin	
			ahmezeitpunkt: Expositionsende bzw. Schichtende	
			ameter: Aceton	

(Contd. on page 6)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

(Contd. of page 5)

- 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 A/P2

- 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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- Material of gloves

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.

- **Eye protection:** Safety glasses

SECTION 9: Physical and chemical properties

52-51-51-7-7-1 Hysical and chemical properties		
- 9.1 Information on basic physical and chemical properties		
General Information		
- Appearance:		
Form:	Aerosol	
Colour:	Colourless	
- Odour:	Characteristic	
- Odour threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
Melting point/freezing point:	Not applicable, as aerosol.	
Initial boiling point and boiling ra	ange: < 0 °C	
- Flash point:	Not applicable, as aerosol.	
- 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.	
	(Contd. on page 7	

(Contd. on page 7)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

	(Contd. of page 6
- Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
- Oxidising properties	Not determined.
- Vapour pressure:	Not determined.
- Density at 20 °C:	0.76 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not applicable.
- Solubility in / Miscibility with	
water:	Partly miscible.
- 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 relevant for classification:				
67-63-0 pi	67-63-0 propan-2-ol			
Oral	LD50	4570 mg/kg (Rat, male/female)		
Dermal	LD50	13400 mg/kg (Rabbit)		
Inhalative LC50/4 h 30 mg/l (Rat, male/female)		30 mg/l (Rat, male/female)		
67-64-1 ac	67-64-1 acetone			
Oral LD50		5800 mg/kg (Rat, male/female)		
Dermal	LD50	20000 mg/kg (Rabbit) (IUCLID)		
Inhalative	LC50/4 h	76 mg/l (Rat, male/female) ((Lit.))		

- Primary irritant effect:
- Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking.
- Serious eye damage/irritation

Causes serious eye irritation.

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

(Contd. on page 8)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

(Contd. of page 7)

- 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.

- 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.
- Toxicity to fish:

67-64-1 acetone

LC0/96 h 5540 mg/l (Oncorhynchus mykiss)

- 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: Toxic for fish
- Additional ecological information:
- General notes:

Also poisonous for fish and plankton in water bodies.

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

Toxic for aquatic organisms

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.

- 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.

- European	- European waste catalogue			
16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST				
16 05 00 gases in pressure containers and discarded chemicals				
16 05 04*	gases in pressure containers (including halons) containing hazardous substances			

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA UN1950

(Contd. on page 9)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

	(Contd. of page 8)
- 14.2 UN proper shipping name - ADR - IMDG - IATA	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
- 14.3 Transport hazard class(es)	
- ADR	
- Class	2 5F Gases.
- Label	2.1
- IMDG	
- Class	2.1
- Label 	2.1
- Class - Label	2.1 2.1
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Product contains environmentally hazardous substances:
- Marine pollutant: - Special marking (ADR):	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Symbol (fish and tree) Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Gases.
- Hazard identification number (Kemler code):	- F-D,S-U
- EMS Number: - Stowage Code	SW1 Protected from sources of heat.
- Segregation Code	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. 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.
	(Contd. on page 10)

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

	(Contd. of page
- 14.7 Transport in bulk according to Anno	ex II of
Marpol and the IBC Code	Not applicable.
- 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, ENVIRONMENTALL
	HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Chemical safety assessment
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 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 is listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 acetone

- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic 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

(Contd. on page 11)

(Contd. of page 10)

Safety data sheet according to ChemO 2015 - SR 813.11

Printing date 06.04.2021 Version number 4 Revision: 06.04.2021

Trade name: ergo 9190 Aerosol

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Aerosol 1: Aerosols – Category 1 Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- * Data compared to the previous version altered.

CH-EN