

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2015

Version number 1

Revision: 20.01.2015

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

- 1.1 Product identifier

- Trade name: **ergo 9190 liquid**

- 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 AN-Cleaner

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Telefon: +41-(0) 58-272 0 272

Telefax: +41-(0) 58-272 0 273

- Further information obtainable from: Safety Department

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

Xi; Irritant

R36: Irritating to eyes.

F; Highly flammable

R11: Highly flammable.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotising effect.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements

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

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

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- 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

H225 Highly flammable liquid and vapour.
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.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P260 Do not breathe mist/vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 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:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 64742-49-0 EC number: 920-750-0 Index number: 649-328-00-1 Reg.nr.: 01-2119473851-33-xxxx	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Xn R65; F R11; N R51/53 R66-67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	25-<100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<100%

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CAS: 67-64-1	acetone	20-<25%
EINECS: 200-662-2	Xi R36; F R11	
Index number: 606-001-00-8	R66-67	
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information:** 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.

- Information for doctor:

If swallowed or in the event of vomiting, risk of product entering the lungs. This may cause chemical pneumonia or suffocation.

- 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:

Prevent seepage into sewage system, workpits and cellars.

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

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Keep receptacles tightly sealed.

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.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
67-63-0 propan-2-ol

MAK (Switzerland)	Short-term value: 1000 mg/m ³ , 400 ppm Long-term value: 500 mg/m ³ , 200 ppm B SSc;
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67-64-1 acetone

MAK (Switzerland)	Short-term value: 2400 mg/m ³ , 1000 ppm Long-term value: 1200 mg/m ³ , 500 ppm B;
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- DNELs
67-63-0 propan-2-ol

Oral	Langzeit, Systemische Effekte	26 mg/kg bw/day (all)
Dermal	Langzeit, Systemische Effekte	319 mg/kg bw/day (all) 888 mg/kg bw/day (ber)
Inhalative	Langzeit, Systemische Effekte	89 mg/m ³ (all)

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		500 mg/m ³ (ber)
67-64-1 acetone		
Oral	Langzeit, Systemische Effekte	62 mg/kg bw/day (all)
Dermal	Langzeit, Systemische Effekte	62 mg/kg bw/day (all)
		186 mg/kg bw/day (ber)
Inhalative	Akut, Lokale Effekte	2420 mg/m ³ (ber)
	Langzeit, Systemische Effekte	200 mg/m ³ (all)
		1210 mg/m ³ (ber)

- PNECs**67-63-0 propan-2-ol**

PNEC Boden	28 mg/kg Boden (-)
PNEC Kläranlage	2251 mg/l (-)
PNEC Meerwasser	140,9 mg/l (-)
PNEC Meerwassersediment	552 mg/kg Sediment (-)
PNEC Süßwasser	140,9 mg/l (-)
PNEC Süßwassersediment	552 mg/kg Sediment (-)

67-64-1 acetone

PNEC Boden	29,5 mg/kg Boden (-)
PNEC Kläranlage	100 mg/l (-)
PNEC Meerwasser	1,06 mg/l (-)
PNEC Meerwassersediment	3,04 mg/kg Sediment (-)
PNEC Süßwasser	10,6 mg/l (-)
PNEC Süßwassersediment	30,4 mg/kg Sediment (-)

- Ingredients with biological limit values:**67-63-0 propan-2-ol**

BAT (Switzerland)	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton
	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton

67-64-1 acetone

BAT (Switzerland)	80 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton
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- 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.

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Avoid contact with the eyes and skin.

- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Protection of hands:

Protective gloves (EN 374)

Solvent resistant gloves

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses

- Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: Clear

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 35 °C

- Flash point: < 0 °C

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature:

Decomposition temperature: Not determined.

- Self-igniting: Product is not self-igniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Vapour pressure: Not determined.

- Density at 20 °C: 0,76 g/cm³

- Relative density Not determined.

- Vapour density Not determined.

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- Evaporation rate	Not determined.
- 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	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions** 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:**

- LD/LC50 values relevant for classification:

67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20 000 mg/kg (rab) (IUCLID)
Inhalative	LC50/4 h	76 mg/l (rat) ((Lit.))

- **Primary irritant effect:**
- **on the skin:** Repeated exposure may cause skin dryness or cracking.
- **on the eye:** Causes serious eye irritation.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
Vapours have narcotic effect.
No experimentally found toxicological data are available for this preparation.

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SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

67-63-0 propan-2-ol

EC50/72 h > 1000 mg/l (Algae)

67-64-1 acetone

EC50/48 h 6,100 mg/l (DA)

LC0/96 h 5,540 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.

- Ecotoxicological effects:

- **Remark:** Toxic for fish

- Additional ecological information:

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- 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

UN1993

- 14.2 UN proper shipping name

- ADR

1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES), ENVIRONMENTALLY HAZARDOUS

- IMDG

FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES), MARINE POLLUTANT

- IATA

FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES)

- 14.3 Transport hazard class(es)

- ADR



- Class

3 (F1) Flammable liquids.

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- Label 3

- IMDG



- Class 3 Flammable liquids.

- Label 3

- IATA



- Class 3 Flammable liquids.

- Label 3

- 14.4 Packing group

- ADR, IMDG, IATA II

- 14.5 Environmental hazards:

- Marine pollutant: Yes

Symbol (fish and tree)

- Special marking (ADR):

Symbol (fish and tree)

- 14.6 Special precautions for user

Warning: Flammable liquids.

- Danger code (Kemler):

33

- EMS Number:

F-E,S-E

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:

- ADR

- Limited quantities (LQ)

1L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- Transport category

2

- Tunnel restriction code

D/E

- IMDG

- Limited quantities (LQ)

1L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":

UN1993, FLAMMABLE LIQUID, N.O.S. (ACETONE, HEXANES), 3, II, 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 1 (Self-assessment): slightly hazardous for water.

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- 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.

- R11 Highly flammable.
- R36 Irritating to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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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

Telefon: +41-(0) 58-272 0 272

Telefax: +41-(0) 58-272 0 273

- Further information obtainable from: Safety Department

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

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

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36: Irritating to eyes.

F+; Extremely flammable

R12: Extremely flammable.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurised container.

Has a narcotising effect.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements

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

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

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- 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.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing mist/vapours/spray.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Buildup of explosive mixtures possible without sufficient ventilation.

- 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: 64742-49-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	25-<100%
EC number: 920-750-0	Xn R65; F R11; N R51/53	
Index number: 649-328-00-1	R66-67	
Reg.nr.: 01-2119473851-33-xxxx	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	

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CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-<100%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	15-<20%

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

aliphatic hydrocarbons	≥ 30%
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- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: 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.

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

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Keep away from ignition sources.

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

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

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

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

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs

67-63-0 propan-2-ol

Oral	Langzeit, Systemische Effekte	26 mg/kg bw/day (all)
Dermal	Langzeit, Systemische Effekte	319 mg/kg bw/day (all) 888 mg/kg bw/day (ber)
Inhalative	Langzeit, Systemische Effekte	89 mg/m ³ (all) 500 mg/m ³ (ber)

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67-64-1 acetone

Oral	Langzeit, Systemische Effekte	62 mg/kg bw/day (all)
Dermal	Langzeit, Systemische Effekte	62 mg/kg bw/day (all)
Inhalative		186 mg/kg bw/day (ber)
	Akut, Lokale Effekte	2420 mg/m ³ (ber)
	Langzeit, Systemische Effekte	200 mg/m ³ (all) 1210 mg/m ³ (ber)

- PNECs**67-63-0 propan-2-ol**

PNEC Boden	28 mg/kg Boden (-)
PNEC Kläranlage	2251 mg/l (-)
PNEC Meerwasser	140,9 mg/l (-)
PNEC Meerwassersediment	552 mg/kg Sediment (-)
PNEC Süßwasser	140,9 mg/l (-)
PNEC Süßwassersediment	552 mg/kg Sediment (-)

67-64-1 acetone

PNEC Boden	29,5 mg/kg Boden (-)
PNEC Kläranlage	100 mg/l (-)
PNEC Meerwasser	1,06 mg/l (-)
PNEC Meerwassersediment	3,04 mg/kg Sediment (-)
PNEC Süßwasser	10,6 mg/l (-)
PNEC Süßwassersediment	30,4 mg/kg Sediment (-)

- 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.

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.

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- Penetration time of glove material

The exact break through 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****- 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/Melting range:** Not applicable, as aerosol.**Boiling point/Boiling range:** Not applicable, as aerosol.**- Flash point:** Not applicable, as aerosol.**- Flammability (solid, gaseous):** Not applicable.**- Ignition temperature:****Decomposition temperature:** Not determined.**- Self-igniting:** Product is not self-igniting.**- Danger of explosion:**

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.**- Vapour pressure:** Not determined.**- Density at 20 °C:** 0,76 g/cm³**- 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 values are valid for the active agent.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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:**

- LD/LC50 values relevant for classification:

67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20 000 mg/kg (rab) (IUCLID)
Inhalative	LC50/4 h	76 mg/l (rat) ((Lit.))

- **Primary irritant effect:**
- **on the skin:** Repeated exposure may cause skin dryness or cracking.
- **on the eye:** Causes serious eye irritation.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Vapours have narcotic effect.
No experimentally found toxicological data are available for this preparation.

SECTION 12: Ecological information

- **12.1 Toxicity**

- Aquatic toxicity:

67-63-0 propan-2-ol

EC50/72 h	> 1000 mg/l (Algae)
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67-64-1 acetone

EC50/48 h	6,100 mg/l (DA)
LC0/96 h	5,540 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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

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- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

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

Toxic for aquatic organisms

- 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 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 dangerous substances

- 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

- 14.3 Transport hazard class(es)
- ADR

- Class

2 5F Gases.

- Label

2.1

- IMDG

- Class

2.1

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- Label	2.1

- IATA	
	
- Class	2.1
- Label	2.1
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
- Marine pollutant:	Yes
- Special marking (ADR):	Symbol (fish and tree)
	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Gases.
- Danger code (Kemler):	-
- EMS Number:	F-D,S-U
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 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":	UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

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 1 (Self-assessment): slightly hazardous for water.

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

- 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.

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- 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.
- R11 Highly flammable.
 R36 Irritating to eyes.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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