

Safety data sheet according to Regulation (EC)
No. 1907/2006/EC, Article 31
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Version 102

SECTION 1: DESCRIPTION OF THE SUBSTANCE OR MIXTURE AND THE COMPANY

Trade name **Z 9072 - Cleaner aerosol**

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

No relevant information available

Application of the substance / the mixture: *Aerosol / Cleaner*

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

STRACK NORMA GmbH & Co. KG
Königsberger Strasse 11
D- 58511 Lüdenscheid
Tel.: +49 2351 8701-0
Fax: +49 2351 8701-100
E-mail: info@strack.de
www.strack.de

1.4 Emergency information

Information centre against poisoning GIZ Bonn,
24-hour emergency call phone: +49 228 19240

SECTION 2: POTENTIAL HAZARDS

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02

Aerosol 1

H222-H229

*Extremely flammable aerosol. Pressurised container:
May burst when heated.*



GHS09

Aquatic Chronic 2

H411

Toxic to aquatic organisms with long lasting effects



GHS07

Skin Irrit. 2

H315

Causes skin irritation

Eye Irrit. 2

H319

Causes severe eye irritation

Skin Sens. 1

H317

May cause allergic skin reactions

STOT SE 3

H336

May cause drowsiness and dizziness

Asp. Tox. 1

H304

May be fatal if swallowed and enters the respiratory tract

2.2 Labelling elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled in accordance with the CLP Regulation

Hazard pictograms



GHS02



GHS07



GHS09

Signal word: *Danger*

Hazard-determining components of labelling: *Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, > 5 % n-hexane
4-isopropenyl-1-methylcyclohexene
2-propanol
butanone*

Gefahrenhinweise:

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

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H336 May cause drowsiness or dizziness

H411 Toxic to aquatic life with long lasting effects

Safety instructions:

P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition, do not smoke

P211 Do not spray against naked flames or other sources of ignition

P251 Do not pierce or burn, even after use

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

Additional information:

Formation of explosive mixtures possible without adequate ventilation.

2.3 Other hazards

Results of the PBT and vPvB assessment

PBT: *Not applicable*

vPvB: *Not applicable*

Determination of endocrine-disrupting properties

78-93-3 Butanone

SECTION 3: COMPOSITION/DISCLOSURE OF COMPONENTS

3.2 Chemical characterisation: Mixtures

Description: *Solvent mixture*

Hazardous ingredients:		
EG number: 921-024-6 Reg.nr.: 01-2119475514-35-XXXX	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane Flam. Lig. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25-50 %
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Butanon Flam. Lig. 2, H225; Eye Irrit. 2 H319; STOT SE 3, H336, EUH066	
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	2-propanol Flam. Lig. 2, H225; Eye Irrit. 2 H319; STOT SE 3, H336	10-25 %
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	n-butane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	

CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane	2,5-10 %
	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	4-isopropenyl-1-methylcyclohexene	2,5-10 %
	Flam. Lig. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H413	
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41	Cyclohexane	0,5-2,5 %
	Flam. Lig. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3; H336	
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44	n-Hexan	>1-<2,5 %
	Flam. Lig. 3, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥5 %	

Additional notes: *The wording of the listed hazard warnings can be found in section 16.*

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information: *Move affected person to fresh air.*

After inhalation: *Supply fresh air, consult a doctor if symptoms occur*

After skin contact: *Wash off immediately with soap and water and rinse thoroughly. If skin irritation persists If skin irritation persists, consult a doctor.*

After eye contact: *Rinse opened eye for several minutes under running water. and consult a doctor.*

If swallowed: *Do not induce vomiting, seek medical attention immediately.*

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Information on immediate medical assistance or specialised treatment

No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing agent

Suitable extinguishing agents: *Adapt fire extinguishing measures to the environment*

5.2 Special hazards arising from the substance or mixture:

Explosion and combustion gases Do not inhale.

5.3 Instructions for fire fighting:

Special protective equipment. Put on breathing apparatus. Wear full protective suit

SECTION 6: MEASURES TO BE TAKEN IN CASE OF IMPROPER RELEASE

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation. Keep ignition sources away.

6.2 Environmental protection measures:

Do not allow to enter drains / surface water / groundwater. Inform the responsible authority in case of penetration into water bodies or sewage system.

- 6.3 Methods and material for containment and cleaning:**
Dispose of contaminated material as waste according to section 13
- 6.4 Reference to other sections:**
For information on safe handling see section 7
Information on personal protective equipment see section 8
Information on disposal see section 13

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:** *Use only in well ventilated areas.*
- Advice on fire and explosion protection:** *Have respiratory protective equipment ready. Container is pressurised. 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 onto a glowing object.*
- 7.2 Conditions for safe storage, including any incompatibilities Storage:**
Requirements for storage rooms and containers: *Store in a cool place. The official regulations for the storage of pressurised gas packs must be observed. Safely prevent penetration into the ground.*
- Storage instructions:** *Not required.*
- Further information on storage conditions:** *Protect from heat and direct sunlight.*
Storage class: 2 B
- 7.3 Specific end uses:** *No further relevant information available.*

SECTION 8: LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Zu überwachende Parameter

Components with limit values that require monitoring at the workplace: <i>C6-C8 aliphatics 8 h Mw. 700 mg/m3 Germany TRGS 900</i>	
78-93-3 Butanone	
AGW (Germany)	Long-term value: 600 mg/m3, 200 ml/m3 1(I); DFG, EU, H, Y
IOELV (European Union)	Short-term value: 900 mg/m3, 300 ml/m3 Long-term value: 600 mg/m3, 200 ml/m3
TLV (European Union)	Short-term value: 5 mg/m³
67-63-0 2-Propanol	
AGW (Germany)	Long-term value: 500 mg/m³, 200 ml/m³ 2(II); DFG, Y
TLV (European Union)	Short-term value: 5 mg/m³
74-98-6 Propan	
AGW (Germany)	Long-term value: 1800 mg/m³, 1000 ml/m³ 4(II); DFG
TLV (European Union)	Short-term value: 5 mg/m³
5989-27-5 4-isopropenyl-1-methylcyclohexene	
AGW (Germany)	Long-term value: 28 mg/m3, 5 ml/m3 4 (II); DFG, H, Sh, Y
TLV (European Union)	Short-term value: 5 mg/m³
110-82-7 Cyclohexane	
TLV (European Union)	Short-term value: 5 mg/m³

110-54-3 n-Hexan	
TLV (European Union)	Short-term value: 5 mg/m³
Ingredients with biological limit values:	
67-63-0 2 Propanol	
BGW (Germany)	25 mg/l Test material: Whole blood Sampling time: end of exposure or end of shift Parameter: Acetone 25 mg/l Test material: Urine Sampling period : end of exposure or end of shift Parameter: Acetone
78-93-3 Butanone	
BGW (Germany)	2 mg/l Test material: Urine Sampling time: end of exposure or end of shift Parameter: 2-butanone

Additional notes: *The lists valid at the time of preparation were used as a basis.*

8.2 Exposure controls and monitoring

Suitable technical control equipment *No further information, see section 7*

Individual protective measures, e.g. personal protective equipment

General protective and hygiene measures: *The usual precautionary measures for handling chemicals must be observed. Remove soiled, soaked clothing immediately. Do not inhale gases/vapours/aerosols.*

Avoid contact with eyes and skin

Respiratory protection: *Respiratory protection recommended*



Class FFA2P3D Norme EN405:2002

Hand protection:



Protective gloves

Glove material: *Nitrile rubber*

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.

Penetration time of the glove material: *The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.*

Eye/face protection:



Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information:

Appearance:

Appearance:	
Aggregate state	<i>Aerosol</i>
Colour	<i>Colourless</i>
Odour	<i>Characteristic</i>
Odour threshold	<i>Not determined</i>
Melting point/freezing point	<i>Not determined</i>
Boiling point or start of boiling and boiling range	<i>Not determined</i>
Flammability	<i>Not applicable</i>
Lower and upper explosion limit	
Lower	<i>0,6 Vol %</i>
Upper	<i>15 Vol %</i>
Flash point	<i>-87°C</i>
Decomposition temperature	<i>Not determined</i>
pH-Wert	<i>Not determined</i>
Viscosity	
Kinematic viscosity	<i>Not determined</i>
Dynamic	<i>Not determined</i>
Solubility	<i>Soluble in hydrocarbons</i>
Wasser	<i>Insoluble</i>
Partition coefficient n-octanol/water (log value)	<i>Not determined</i>
Steam pressure	<i>Not determined</i>
Density and/or relative density	
Density at 20°C	<i>0,72 g/cm³</i>
Relative density	<i>Not determined</i>
Vapour density	<i>Not determined</i>

9.2 Other information:

Appearance:

Shape: *Aerosol*

Important information on health, environmental protection and safety

Ignition temperature: *Not determined*

Explosive properties: *The product is not explosive, but the formation of explosive vapour/air mixtures is possible*

Change of state:

Evaporation rate: *Not applicable*

Information on physical hazard classes

Explosive substances/mixtures and products with

Explosive substance *Not applicable*

Flammable gases *Not applicable*

Aerosols	<i>Extremely flammable aerosol. Pressurised container: May burst when heated.</i>
Oxidising gases	<i>Not applicable</i>
Gases under pressure	<i>Not applicable</i>
Flammable liquids	<i>Not applicable</i>
Flammable solids	<i>Not applicable</i>
Self-reactive substances and mixtures	<i>Not applicable</i>
Pyrophoric liquids	<i>Not applicable</i>
Pyrophoric solids	<i>Not applicable</i>
Self-heating substances and mixtures	<i>Not applicable</i>
Substances and mixtures which, in contact with water, emit flammable gases	<i>Not applicable</i>
Oxidising liquids	<i>Not applicable</i>
Oxidising solids	<i>Not applicable</i>
Oxidising peroxides	<i>Not applicable</i>
Substances and mixtures corrosive to metals	<i>Not applicable</i>
Desensitised substances/mixtures and products with explosives	<i>Not applicable</i>

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: *No further relevant information available.*

10.2 Chemical stability

Thermal decomposition / Conditions to avoid: *No decomposition if stored as directed.*

Storage and handling

10.3 Possibility of hazardous reactions: *Due to the high vapour pressure, there is a risk of the areosol bursting if the temperature rises*

10.4 Conditions to avoid: *No further relevant information available*

10.5 Incompatible materials: *Not applicable*

10.6 Hazardous decomposition products:

Flammable gases/vapours

Hydrocarbons, CO, CO₂

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes according to Regulation (EC) No 1272/2008

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

Corrosive/irritant effect on the skin: *Causes skin irritation*

Serious eye damage/irritation: *Causes severe eye irritation*

Sensitisation of the respiratory tract / skin: *Can cause allergic skin reactions.*

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.*

Specific target organ toxicity at single exposure: *May cause drowsiness and dizziness cause drowsiness and dizziness.*

Specific target organ toxicity with repeated exposure: *Based on available data, the classification criteria are not met.*

Aspiration hazard: *May be fatal if swallowed and enters the respiratory tract.*

11.2 Information on other hazards

Endocrine disrupting properties
78-93-3 butanone

SECTION 12: ENVIRONMENTAL INFORMATION

12.1 Toxicity:

Aquatic toxicity:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

CL50 15,8 mg/l/72h (Fish)

EC50-48H 3 mg/l (Daphnia)

78-93-3 Butanone

CL50-96H 2.993 mg/l (Fish)

EC50-48H 308 mg/l (Daphnia)

CE50r 2.029 mg/l/96h (Algae)

67-63-0 2-Propanol

CL50-96H 10.000 mg/l (Fish)

CE50 >10.000 mg/l/24h (Daphnia)

106-97-8 n-Butane

CL50-96H 27,98 mg/l (Fish)

CE50 7,71 mg/l/96h (Algae)

74-98-6 Propane

CL50-96H 27,98 mg/l (Fish)

CE50 7,71 mg/l/96h (Algae)

5989-27-5 4-isopropenyl-1-methylcyclohexene

CL50-96H 0,72 mg/l (Fish)

CE50r 0,32 mg/l/72h (Algae)

CE50 0,688 mg/l/96h (Fish)

110-82-7 Cyclohexane

CL50-96H 4,53 mg/l (Fish)

CE50r 9,317 mg/l/72h (Algae)

EC50-48H 0,9 mg/l (Daphnia)

110-54-3 n-hexane

CL50-96H 12,51 mg/l (Fish)

EC50-48H 21,85 mg/l (Daphnia)

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*

12.5 Results of the PBT and vPvB assessment

PBT: *not applicable*

vPvB: *not applicable*

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11

12.7 Other harmful effects

Further ecological information:

General information:
Water hazard class 2: hazardous to water
Do not allow to enter ground water, water course or sewage system. Toxic to aquatic organisms.

SECTION 13: NOTES ON DISPOSAL

- 13.1 Waste treatment process**
Recommendation: *Must not be disposed of together with household waste. Do not allow to enter the sewerage into the sewage system.*
- European Waste Catalogue**
15 01 04 Metal packaging
14 06 03 Other solvents and solvent mixtures*
- Uncleaned packaging**
Recommendation: *Disposal in accordance with official regulations.*

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number**
ADR, IMDG, IATA *UN 1950*
- 14.2. Ordnungsgemäße UN-Versandbezeichnung**
ADR/IMDG/IATA *1950 AEROSOLS, ENVIRONMENTALLY
HAZARDOUS- AEROSOLS - MARINE POLLUTANT-
AEROSOLS, flammable*
- 14.3 Transport hazard classes**
- | | |
|---------------------|-------------------|
| ADR | |
| <i>Class</i> | <i>2 5F Gases</i> |
| <i>Hazard label</i> | <i>2.1</i> |
| IMDG | |
| <i>Class</i> | <i>2.1</i> |
| <i>Hazard label</i> | <i>2.1</i> |
| LATA | |
| <i>Class</i> | <i>2.1</i> |
| <i>Hazard label</i> | <i>2.1</i> |
- 14.4. Packaging group**
ADR, IMDG, IATA *Not applicable*
- 14.5 Environmental hazards:** *The product contains environmentally hazardous substances:
4-isopropenyl-1-methylcyclohexene*
- Marine pollutant:** *Yes*
Symbol (fish and tree)
- Special labelling (ADR):** *Symbol (fish and tree)*
- 14.6 Special precautions for the user:** *Attention gases*
Kemler number: *-*
EMS number: *F-D, S-U*
Stowage Code *SW1 Protected from sources of heat.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.*

Segregation Code

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.

14.7 Transport in bulk by sea by sea according to IMO instruments

Nicht anwendbar

Transport/further information:

ADR

Limited quantity (LQ)

1L

Released quantities (EQ)

Code: E0

Not authorised in released quantities

Transport category

2

Tunnel restriction code

D

IMDG

Limited quantity (LQ)

1L

Released quantities (EQ)

Code: E0

Not authorised in released quantities

UN „Model Regulation“

UN1950 Pressurised gas packagings, 2.1 Environmentally hazardous

SECTION 15: LEGAL REGULATIONS

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

Directive 2012/18/EU

Named dangerous substances - ANNEX 1 *None of the ingredients are included*

• Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the aquatic environment

Quantity threshold (in tonnes) for use in lower-tier establishments 150 t

Quantity threshold (in tonnes) for use in upper-tier establishments 500 t

REGULATION (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3,57

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 explosives precursors (upper concentration limit for authorisation under Article 5(3))

None of the ingredients are included

Annex II - Reportable explosives precursors

None of the ingredients are included

Regulation (EC) No 273/2004 on drug precursors

78-93-3 Butanone

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug substitutes

78-93-3 Butanone

National regulations

Classification according to VbF: *Not applicable*

Technical instructions *Luft:*

Class Share in % NK 100 %

Water hazard class: WGK 2: *hazardous to water*

15.2 Chemical safety assessment: A chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

Relevant sentences

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour.

H280 Contains pressurised gas, may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic organisms

H410 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking

Data sheet issuing area: see point 1

Abbreviations and acronyms:

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

Flam. Liq. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin irritant/corrosive - Category 2

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

Skin Sens. 1: Skin sensitisation - Category 1

Repr. 2: Reproductive toxicity - 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 2: Hazardous to the aquatic environment - Long-term aquatic hazard - Category 2

*** Data changed compared to the previous version**