

Safety Data Sheet
according to No. 1907/2006/EC, Article 32
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product	Z 9072 - Special cleaner aerosol
Manufacturer/distributor	STRACK NORMA GmbH & Co. KG Königsberger Strasse 11 D- 58511 Lüdenscheid Tel.: +49 (0) 23 51 - 87 01 - 0 Fax: +49 (0) 23 51 - 87 01 - 100 e-mail: info@strack.de Internet: www.strack.de
Emergency advice	Poison Emergency Bonn: In case of poisoning Phone: +49(0)228-19 240

SECTION 2: HAZARDS IDENTIFICATION

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 if heated.



GHS09

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



GHS07

Skin Irrit. 2	H315	Causes skin irritation
Eye Irrit. 2	H319	Causes serious eye irritation
Skin Sens. 1	H317	May cause an allergic skin reaction
STOT SE 3	H336	May cause drowsiness or dizziness
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways

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



GHS09

Signal word: Danger

Hazard-determining components of labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, > 5 % n-hexane, (R)-p-mentha-1,8-diene
propan-2-ol
butanone

Hazard statements:

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

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
P302+P352 IF ON SKIN: Wash with plenty water
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:

Buildup of explosive mixtures possible without sufficient ventilation

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Determination of endocrine-disrupting properties

78-93-3 butanone List II

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Solvent mixture

Dangerous components:

EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit., H315; STOT SE 3, H336	50 -100%
CAS: 67-63-0 EINECS: 200-661-7	propanol-2-ol Flam. Liq. 2, H225; Eye Irrit 2, H319; STOT SE 3, H336	10 -25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit 2, H319; STOT SE 3, H336, EZH066	10 -25%
CAS: 74-98-6 EINECS: 200-827-9 Reg. Nr.: 01-2119486944-21	Propellant propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	0,5-2,5%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-	isobutane Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	0,5-2,5%
CAS: 106-97-8	Propellant butane	0,5-2,5%

EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-	Flam. Gas 1, H220; Press. Gas (Comp.), H280	
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide substance with a Community workplace exposure limit	0,5-2,5%
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	>1-<2,5%
EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	

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

Take affected persons out into the fresh air.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Do not induce vomiting, call for medical help immediately.

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: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

Do not breathe gases and smokes from fire.

5.3. Advice for firefighters

Protective equipment

Mount respiratory protective device. Wear fully protective suit.

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.

6.2. Environmental precautions

Do not allow to enter sewers / surface or ground water.

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

6.3. Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

6.4. Reference to other sections

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only in well ventilated areas.

Information about fire - and explosion protection:

Keep respiratory protective device available.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles

Observe official regulations on storing packagings with pressurised containers.

Store in a cool location.

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions

Protect from heat and direct sunlight

7.3. Specific end use(s):

No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace

67-63-0 propan-2-ol

TLV (European Union) Short-term value: 5 mg/m³

78-93-3 butanone

IOELV (European Union) Short-term value : 900 mg/m³ ; 300 ppm

Long-term value: 600 mg/m³ ; 200 ppm

TLV (European Union) Short-term value: 5 mg/m³

74-98-6 Propellant propane

TLV (European Union) Short-term value: 5 mg/m³

75-28-5 isobutane

TLV (European Union) Short-term value: 5 mg/m³

106-97-8 Propellant butane

TLV (European Union) Short-term value: 5 mg/m³

124-38-9 carbon dioxide

IOELV (European Union)

TLV (European Union)

Long-term value: 9000 mg/m³, 5000 ppm

Short-term value: 5 mg/m³

5989-27-5 (R)-p-mentha-1,8-diene

TLV (European Union)

Short-term value: 5 mg/m³

Additional information

The lists valid during the making were used as basis.

8.2. Exposur controls

Appropriate engineering controls *No further data, see item 7*

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

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

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection

Suitable respiratory protective device recommended.



Classe FFA2P3D Norme EN405:2002

Protection of hands



Protective gloves

Material of gloves

PVA gloves

The selection of the suitable gloves does not only depend on the material, but also further marks of quality and varies from manufacturer to manufacturer. As the product is 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 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:

Physical state

Aerosol

Colour

Colourless

Odour

Characteristic

Odour threshold

Not determined

pH-value:

Not determined

Change in condition

Melting point/freezing point:	Undetermined
Initial boiling point and boiling range:	Undetermined
range:	Undetermined
Flammability:	Not applicable
Lower and upper explosion limit	
Lower:	0.6 Vol %
Upper:	12 Vol %
Flash point:	-60°C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity	
Kinematic viscosity	Not determined
Dynamic	Not determined
Solubility	Soluble in hydrocarbons
water	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20°C	4,100 hPa
Relative density	Not determined
Vapour density	Not determined

9.2. Other information

Appearance:	
Form:	Aerosol
Important information on protection of health and environment, and on safety	
Auto-ignition temperature	Not determined
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
Change in condition	
Evaporation rate	Not applicable

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

10.3. Possibility of hazardous reactions

Danger of sprays bursting because of high vapour pressure when heated.

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 as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

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

Oral LD50 >5,840 mg/kg (Rat) (OCDE 401)

Dermal LD50 >2,920 mg/kg (Rabbit) (OCDE 402)

Inhalative LC50/4 h 25.2 mg/l (Rat)

5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >5,000 mg/kg (Rabbit)

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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.

11.2 Information on other hazards

Endocrine disrupting properties

78-93-3

butanone

List II

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acquatic toxicity

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

CL50	30 mg/l (Algae) (72h)
	3 mg/l (Daphnia) (48h)
CL50-96H	11.4 mg/l (Fish)

5989-27-5 (R)-p-mentha-1,8-diene

CL50-96H	0.72 mg/l (Fish)
CE50	0.36 mg/l (Daphnia) (48h)

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 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 adverse effects

Additional ecological information

General notes: Water hazard class 1 (self-assessment): slightly hazardous for water

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

Toxic for aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

15 01 04	metallic packaging
14 06 03*	other solvents and solvent mixtures

Uncleaned packaging

Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA UN 1950

14.2. UN proper shipping name

ADR 1950 AEROSOL, 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, IATA	
Class	2.1
Label	2.1
14.4. Packing group ADR, IMDG, IATA	Void
14.5. Environmental hazards:	Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene
Marine pollutant:	Yes
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6. Special precautions for user	Warning: Gases
Hazard identification (Kemler code):	-
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. Maritime transport in bulk according to IMO instruments	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, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed

Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
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

None of the ingredients is listed

Regulation (EC) No 273/2004 on drug precursors

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

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National regulations:

Technical instructions (air):

Class Share in % NK 98 %

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.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure: may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

Department issuing SDS: see item 1

Abbreviations and acronyms:

Flam. Gas 1: Flammable gases, Hazard Category 1
Aerosol 1: Aerosol 1 -Category 1
Press. Gas (Compact): Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1