

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 1 / 17

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

1.1 Product identifier

814 Brunnen Pistolen Schaum

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

1.2.1 Relevant uses

Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ramsauer GmbH & Co KG
Alte Bundesstraße 147
5350 Strobl / Wolfgangsee / AUSTRIA
Phone +43 (0)6135 8205 0
Fax +43 (0)6135 8205-250
Homepage www.ramsauer.eu
E-mail office@ramsauer.eu

Address enquiries to

Technical information

office@ramsauer.eu

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body

+43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

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

Carc. 2: H351 Suspected of causing cancer.

Skin Sens. 1: H317 May cause an allergic skin reaction.

Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Irrit. 2: H315 Causes skin irritation.

STOT SE 3: H335 May cause respiratory irritation.

Lact.: H362 May cause harm to breast-fed children.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life.

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 2 / 17

2.2 Label elements

	The product is required to be labelled in accordance with regulation CLP.
Hazard pictograms	  
Signal word	DANGER
Contains:	Diphenylmethanediisocyanate, isomeres and homologues Alkanes, C14-17, chloro
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H351 Suspected of causing cancer. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H319 Causes serious eye irritation. H315 Causes skin irritation. H335 May cause respiratory irritation. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure through inhalation. H413 May cause long lasting harmful effects to aquatic life.
Precautionary statements	P201 Obtain special instructions before use. 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. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. P260 Do not breathe vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / eye protection / face protection. P284 In case of inadequate ventilation wear respiratory protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor / ... P501 Dispose of contents/container in accordance with local/national regulation. P263 Avoid contact during pregnancy and while nursing.
Special labelling	EUH204 Contains isocyanates. May produce an allergic reaction. ----- As from 24 August 2023 adequate training is required before industrial or professional use. -----

2.3 Other hazards

Environmental hazards	The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII: CAS: 85535-85-9 Contains no ingredients with endocrine-disrupting properties.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 3 / 17

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - <20	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
10 - <20	Alkanes, C14-17, chloro
	CAS: 85535-85-9, EINECS/ELINCS: 287-477-0, EU-INDEX: 602-095-00-X, Reg-No.: 01-2119519269-33-XXXX
	GHS/CLP: Lact.: H362 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH066, M-Factor (acute): 10, M-Factor (chronic): 10
10 - <20	Diphenylmethanediisocyanate, isomeres and homologues
	CAS: 9016-87-9, EINECS/ELINCS: 618-498-9
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373 - EUH204 SCL [%]: 5: STOT SE 3: H335, 0.1: Resp. Sens. 1: H334, 5: Eye Irrit. 2: H319, 5: Skin Irrit. 2: H315
5 - <10	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
1 - <5	Propane
	CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Drowsiness
Vertigo
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 4 / 17

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Hydrogen chloride (HCl).
Hydrogen cyanide (HCN).
Nitrogen oxides (NOx).
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Propellant can form an explosive mixture with air.
Do not eat, drink, smoke or take drugs at work.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Keep in a cool place, heat causes increase in pressure and risk of bursting.

7.3 Specific end use(s)

See product use, SECTION 1.2

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 5 / 17

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Eight hours: 1000 ppm, 1920 mg/m ³

DNEL

Substance
Alkanes, C14-17, chloro, CAS: 85535-85-9
Industrial, dermal, Long-term - systemic effects, 47.9 mg/kg/d
Industrial, inhalative, Long-term - systemic effects, 6.7 mg/m ³
general population, oral, Long-term - systemic effects, 0.58 mg/kg/d
general population, inhalative, Long-term - systemic effects, 2 mg/m ³
general population, dermal, Long-term - systemic effects, 28.75 mg/kg/d
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative, Long-term - systemic effects, 1894 mg/m ³
general population, inhalative, Long-term - systemic effects, 471 mg/m ³
iso-Butane, CAS: 75-28-5
There are no DNEL values established for the substance.
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.

PNEC

Substance
Alkanes, C14-17, chloro, CAS: 85535-85-9
oral (food), 10 mg/kg
soil, 11.9 mg/kg
sediment (seawater), 2.6 mg/kg
sediment (freshwater), 13 mg/kg
sewage treatment plants (STP), 80 mg/l
seawater, 0.2 µg/l
freshwater, 1 µg/l
Dimethyl ether, CAS: 115-10-6
sewage treatment plants (STP), 160 mg/L
sediment (seawater), 0.069 mg/kg
sediment (freshwater), 0.681 mg/kg dw
soil, 0.045 mg/kg dw
seawater, 0.016 mg/l
freshwater, 0.155 mg/l
iso-Butane, CAS: 75-28-5
There are no PNEC values established for the substance.
Propane, CAS: 74-98-6
There are no PNEC values established for the substance.

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 6 / 17

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0.7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact during pregnancy/ while nursing.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 7 / 17

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	aerosol
Color	not determined
Odor	characteristic
Odour threshold	not relevant
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	not applicable
Flammability	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	510
Density [g/cm ³]	1.0 (23°C / 73,4°F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	reacts with water
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of proper use the intended polymerisationsreaction takes place.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Because of the high vapour pressure, containers are liable to burst if temperature rises > 50°C / 122°F.
Formation of explosive gas/air mixtures.

10.4 Conditions to avoid

See SECTION 7.2.

Ramsauer GmbH & Co KG

5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 8 / 17

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 9 / 17

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

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

Product

ATE-mix, oral, > 2000 mg/kg

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

LD50, oral, Rat, 4000 mg/kg

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

LD50, oral, Rat, > 10000 mg/kg (OECD 401)

Acute dermal toxicity

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

Product

ATE-mix, dermal, > 2000 mg/kg

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

LD50, dermal, Rabbit, 10 mL/kg

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

LD50, dermal, Rabbit, > 9400 mg/kg (OECD 402)

Acute inhalational toxicity

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

Product

ATE-mix, inhalativ (mist), > 5 mg/L 4h

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

LC50, inhalative, Rat, 48.17 mg/L air

Dimethyl ether, CAS: 115-10-6

LC50, inhalative, Rat, 164000 ppm (4 h)

iso-Butane, CAS: 75-28-5

LC50, inhalative, mouse, 1237 mg/l (2h) (Lit.)

Propane, CAS: 74-98-6

LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

LC50, inhalativ (mist), Rat, 0.31 mg/l/4h (OECD 403)

NOAEL, inhalative, Rat, 0.2 mg/m³ (OECD 453)

LOAEL, inhalative, Rat, 1 mg/m³ (OECD 453)

ATE, inhalativ (mist), 1.5 mg/l

Serious eye damage/irritation

Irritant

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

Eye, Rabbit, The effects observed are not sufficient for classification.

iso-Butane, CAS: 75-28-5

Eye, non-irritating

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 10 / 17

Propane, CAS: 74-98-6

Eye, non-irritating

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

Eye, irritant

Skin corrosion/irritation

Irritant

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

dermal, Rabbit, OECD 404, The effects observed are not sufficient for classification., EUH066,

iso-Butane, CAS: 75-28-5

dermal, non-irritating

Propane, CAS: 74-98-6

dermal, non-irritating

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

dermal, Rabbit, OECD 404, irritant

Respiratory or skin sensitisation

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

dermal, Guinea pig, non-sensitizing

iso-Butane, CAS: 75-28-5

inhalative, non-sensitizing

dermal, non-sensitizing

Propane, CAS: 74-98-6

inhalative, non-sensitizing

dermal, non-sensitizing

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

inhalative, Rat, sensitising

dermal, mouse, OECD 429, sensitising

**Specific target organ toxicity —
single exposure**

May cause respiratory irritation.

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

inhalative, non-irritating

Dimethyl ether, CAS: 115-10-6

inhalative, non-irritating

iso-Butane, CAS: 75-28-5

inhalative, non-irritating

Propane, CAS: 74-98-6

inhalative, non-irritating

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

inhalative, irritant

**Specific target organ toxicity —
repeated exposure**

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

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 11 / 17

NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 408, The effects observed are not sufficient for classification.

Dimethyl ether, CAS: 115-10-6

NOAEC, inhalativ (gas), Rat, 47106 mg/m³, no adverse effect observed

iso-Butane, CAS: 75-28-5

NOAEC, inhalative, Rat, 4437 mg/m³, The effects observed are not sufficient for classification.

Propane, CAS: 74-98-6

NOAEC, inhalative, Rat, 4437 mg/m³, The effects observed are not sufficient for classification.

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

inhalative, adverse effect observed

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

negativ

Dimethyl ether, CAS: 115-10-6

in vitro, negativ

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

in vivo, negativ

in vitro, negativ

Reproduction toxicity

May cause harm to breast-fed children.
CAS: 85535-85-9

- Fertility

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

no adverse effect observed

Dimethyl ether, CAS: 115-10-6

NOAEC, inhalative, Rat, 16000 ppm (subchronic), no adverse effect observed

- Development

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

no adverse effect observed

Dimethyl ether, CAS: 115-10-6

NOAEC, inhalative, Rat, 75370 mg/m³ (subacute), no adverse effect observed

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

NOAEL, inhalative, Rat, 4 mg/m³, OECD 414, 6h, no adverse effect observed

Carcinogenicity

This product contains one or more substances of categorie Carc. 2 (CLP).
CAS: 9016-87-9

Substance

Alkanes, C14-17, chloro, CAS: 85535-85-9

no adverse effect observed

Dimethyl ether, CAS: 115-10-6

NOAEC, inhalativ (gas), Rat, 47106 mg/m³, no adverse effect observed

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

adverse effect observed

Aspiration hazard

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

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 12 / 17

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Product
EC50, (48h), Daphnia magna, >1000 mg/L
Substance
Alkanes, C14-17, chloro, CAS: 85535-85-9
LC50, (96h), fish, > 5000 mg/l (IUCLID)
EC50, (96h), Algae, >3.2 mg/l
EC50, (48h), Daphnia magna, 0.006 mg/l
NOEC, (21d), Daphnia magna, 0.01 mg/l
Dimethyl ether, CAS: 115-10-6
LC50, (96h), Poecilia reticulata, > 4000 mg/l
EC50, (48h), Daphnia magna, > 4000 mg/l
EC50, (96h), Pseudokirchneriella subcapitata, 154.917 mg/l
iso-Butane, CAS: 75-28-5
LC50, (96h), fish, 7.71 - 19.37 mg/L
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LC50, (96h), Danio rerio, > 1000 mg/l (OECD 203)
EC50, (3h), Bacteria, > 100 mg/l (OECD 209)
EC50, (24h), Daphnia magna, > 1000 mg/l (OECD 202)
NOEC, (21d), Daphnia magna, > 10 mg/l (OECD 202)
ErC50, (72h), Scenedesmus subspicatus, > 1640 mg/l (OECD 201)

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Released product polymerize immediately without penetrating into the ground.

12.5 Results of PBT and vPvB assessment

The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII:
CAS: 85535-85-9

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 13 / 17

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances
080501*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950


Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee


Date printed 14.11.2023, Revision 14.11.2023


Version 1.0


Page 14 / 17

14.2 UN proper shipping name

Transport by land according to ADR/RID Aerosols
- Classification Code 5F
- Label 
- ADR LQ 1 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols
- Classification Code 5F
- Label 

Marine transport in accordance with IMDG Aerosols
- EMS F-D, S-U
- Label 
- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable
- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2

Inland navigation (ADN) 2

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 15 / 17

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148

- **Comment on component parts** SVHC (Candidate List of Substances of Very High Concern for authorisation) \geq 0.1%
CAS 85535-85-9 - Alkanes, C14-17, chloro

- **Annex I (REACH)** The product is not subject to Annex I restrictions.

- **Annex XIV (REACH)** According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are subject to authorisation.

- **Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains \geq 0.1% of substances with the following restrictions. 3, 40, 74, 75
According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions.
3

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (EU):

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** 18,29 %

15.2 Chemical safety assessment

not applicable

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 16 / 17

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
EUH066 Repeated exposure may cause skin dryness or cracking.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H362 May cause harm to breast-fed children.
EUH204 Contains isocyanates. May produce an allergic reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

Ramsauer GmbH & Co KG
5350 Strobl / Wolfgangsee

Date printed 14.11.2023, Revision 14.11.2023

Version 1.0

Page 17 / 17

16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Lact.: H362 May cause harm to breast-fed children. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation. (Calculation method)
Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life. (On basis of test data)

Modified position

none

Copyright: Chemiebüro®