

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of product RIEGLER All-round spray / 400 ml
Code-Nr. R3270/400 / ID-Nr. 114566

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)

Technical Aerosols

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor RIEGLER & Co. KG
Schützenstr. 27, D-72574 Bad Urach
Phone : +49 (0) 7125/9497-0, Fax : +49 (0) 7125/9497-97
E-Mail : zedok@riegler.de
Internet : www.riegler.de

Advice Abteilung eDocumentation
Phone : +49 (0) 7125/9497-0
Fax : +49 (0) 7125/9497-97
E-mail (competent person):
zedok@riegler.de

1.4. Emergency telephone number

Emergency advice Giftnotrufzentrale Bonn
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 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Aerosol 1	H222, H229	
STOT SE 3	H336	
Asp. Tox. 1		- H304 (Aerosol: not applicable)

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS02



GHS07

Signal word

Danger

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.

Precautionary Statements

P102	Keep out of reach of children.
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, Naphtha (petroleum), hydrotreated heavy

2.3. Other hazards
Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Description

Mixture of active ingredients with propellant

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
95-63-6	202-436-9	1,2,4-trimethylbenzene	0,1 - 0,29	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Aquatic Chronic 2, H411
64742-47-8	926-141-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	10 < 25	Asp. Tox. 1, H304
64742-48-9	919-857-5	Naphtha (petroleum), hydrotreated heavy	10 < 25	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 /
68608-26-4	271-781-5	Sodium Sulfonate	2,5 < 9	Eye Irrit. 2, H319

REACH

CAS No	Name	REACH registration number
95-63-6	1,2,4-trimethylbenzene	01-2119472135-42
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	01-2119456620-43
64742-48-9	Naphtha (petroleum), hydrotreated heavy	01-2119463258-33

REACH (continued)

CAS No	Name	REACH registration number
68608-26-4	Sodium Sulfonate	01-2119527859-22

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam

Dry powder

Carbon dioxide

water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material.
After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ventilate closed rooms at ground level.
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Do not inhale aerosols

Hygiene measures

At work do not eat, drink, smoke or take drugs.
Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Do not spray on a naked flame or any incandescent material.
Pressurized container.
Do not pierce or burn even after use.
Vapours can form an explosive mixture with air.
Take precautionary measures against static discharges.
Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in closed original container.
Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

Further information on storage conditions

Protect from heat and direct solar radiation.
Storage temperature may not exceed 50°C (=122°F).
Store container at cool and aired place.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
95-63-6	1,2,4-trimethylbenzene	8 hours	100	20	

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
64742-48-9	Naphtha (petroleum), hydrotreated heavy	208 mg/kg bw/day	DNEL long-term dermal (systemic)	
		871 mg/m3	DNEL long-term inhalative (systemic)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
64742-48-9	Naphtha (petroleum), hydrotreated heavy	185 mg/m3	DNEL long-term inhalative (systemic)	
		125 mg/kg bw/day	DNEL long-term dermal (systemic)	
		125 mg/kg bw/day	DNEL long-term oral (repeated)	

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Short term: filter apparatus, Filter A/P2

Hand protection

Gloves (solvent-resistant)

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification: Nitrile rubber

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Appearance

aerosol

Colour

yellowish

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	-44 °C				
Melting point / Freezing point	not determined				
Flash point	not applicable				Aerosol
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not determined				
Ignition temperature	200 °C				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	0,5 Vol-%				
Upper explosion limit	10,9 Vol-%				
Vapour pressure	2100 hPa	20 °C			
Relative density	0,75 g/cm ³	20 °C			
Vapour density	not determined				
Solubility in water					No or low immiscibility
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Solvent content	58,8 %				
Solids content	0,9 %				

Oxidising properties

No information available.

Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information

No information available.

! SECTION 10: Stability and reactivity
10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat.

Formation of explosive gas/air mixtures.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products
Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat		CAS: 64742-48-9
LD50 acute dermal	> 5000 mg/kg	rabbit		CAS: 64742-48-9
LC50 acute inhalation	> 100 mg/l ()		dust/mist	ATE
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	low irritant - no labeling duty			
Skin sensitization	non-sensitizing			

Subacute Toxicity - Carcinogenicity

Value	Species	Method	Validation
Mutagenicity			No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity			No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity			No indications of carcinogenic effects are available from long-term trials.

! Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

! Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.

Vapours may cause dizziness, headaches and tiredness

May cause drowsiness or dizziness.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LL/EL/IL50 > 1000 mg/l (96 h)	Oncorhynchus mykiss		CAS: 64742-48-9
Daphnia	LL/EL/IL50 1000 mg/l (48 h)	Daphnia magna		CAS: 64742-48-9
Algae	LL/EL/IL50 > 1000 mg/l (72 h)	Pseudokirchneriella subcapitata		CAS: 64742-48-9

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

! General regulation

Even in the event of low quantities penetration into the underground drinking water is contaminated.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

General information

For proper waste disposal a complete emptying of the tin is necessary.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

Caution: Gases

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 2.1

tunnel restriction code D

Classification code 5F

transport in "limited quantities" according to 3.4 ADR is possible

! SECTION 15: Regulatory information

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

VOC standard

VOC content 58,81 %

VOC value 411,9 g/L

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 9.2

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.