

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

1.1. Product identifier

Name of product

RIEGLER Lock activator F / 200 ml Code-Nr. R3150/200 / ID-Nr. 114565

**1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)** Activator for passive surfaces

### 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
Eye Irrit. 2	H319
STOT SE 3	H336
Aquatic Chronic 3	H412
Hazard Statements	

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]





# Signal word

Danger

### **Hazard Statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

### **Precautionary Statements**

Frecautionary St	
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.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P304 + P340 P305 + P351 + P338 P312 P337 + P313	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention.
P403 + P233 P405 P410 + P412	Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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

propan-2-ol

### 2.3. Other hazards

Product has an anesthetic effect.

### 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 Organic chemicals in a solvent mixture.

### ! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
64-17-5	200-578-6	ethanol	30 - 60	Flam. Liq. 2, H225



#### Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-63-0	200-661-7	propan-2-ol	10 - 30	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1338-02-9	215-657-0	Naphthenic acids, copper salts	0,1 < 1	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
811-97-2	212-377-0	norflurane	< 1	Liquefied gas, H280
22221-10-9	244-846-0	2-ETHYLHEXANOIC ACID, COPPER SALT	0,1 < 1	Acute Tox. 4, H302 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1
87741-01-3	289-339-5	Kohlenwasserstoffe, C4; Gase aus Erdölverarbeitung	10 - 30	Press. Gas / Flam. Gas 1, H220 / (Note K) /
REACH				
CAS No	Name			<b>REACH</b> registration number
64-17-5	ethanol			01-2119457610-43
67-63-0	propan-2-ol			01-2119457558-25
1338-02-9	Naphthenic a	cids, copper salts		not subject to registration
811-97-2	norflurane			01-2119459374-33
22221-10-9	2-ETHYLHE	(ANOIC ACID, COPPER SALT		not subject to registration
87741-01-3	Kohlenwasse	rstoffe, C4; Gase aus Erdölverarbeitung		01-2119480480-41

#### ! Additional advice

CAS: 87741-01-3, Note K applied ( < 0,1% w/w 1,3 butadiene - EINECS 203-450-8)

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Ensure of fresh air. 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 water. Call for a doctor immediately.

#### In case of ingestion

Do not induce vomiting. Medical treatment. Rinse out mouth and give plenty of water to drink.

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

Physician's information / possible symptoms Unconsciousness Anaesthetic state Headache Confusion Dizziness



**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 sand Water spray jet

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. Carbon monoxide (CO) Carbon dioxide (CO2)

### 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.

Do not inhale explosion and/or combustion gases.

### Additional information

Cool endangered containers with water spray jet.

### **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. Use breathing apparatus if exposed to vapours/dust/aerosol.

### 6.2. Environmental precautions

Do not discharge into the drains or bodies of water.. Do not discharge into the drains/surface waters/groundwater.

#### 6.3. Methods and material for containment and cleaning up

Allow to vaporise.

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder). 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**

Avoid contact with eyes and skin Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink, smoke or take drugs. Remove soiled or soaked clothing immediately. 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. Do not pierce or burn even after use. The product is combustible. Vapours can form an explosive mixture with air. 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.

### Advice on storage compatibility

Do not store together with animal feedstuffs. Do not store together with food.

### Further information on storage conditions

Keep container tightly closed and store at cool and aired place. Protect from heat and direct solar radiation. Storage temperature may not exceed 50°C (=122°F). Protect from heat/overheating. Recommended storage temperature: room temperature.

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 Short-term	1450 1810	600 750	EH40/2005
64-17-5	ethanol	8 hours	1920	1000	EH40/2005
67-63-0	propan-2-ol	8 hours Short-term	999 1250	400 500	EH40/2005
811-97-2	1,1,1,2-Tetrafluoroethane (HFC 134a)	8 hours	4240	1000	EH40/2005



#### DNEL-/PNEC-values DNEL worker

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CAS No	Substance name	Value	Code	Remark
64-17-5	ethanol	343 mg/kg	DNEL long-term dermal (systemic)	
		950 mg/m3	DNEL acute inhalative (systemic)	
		1900 mg/m3	DNEL acute inhalative (local)	
67-63-0	propan-2-ol	888 mg/kg bw/day	DNEL long-term dermal (systemic)	
		500 mg/m3	DNEL long-term inhalative (systemic)	

### ! Additional advice

The statutory local and national regulations have to be observed.

### 8.2. Exposure controls

#### **Respiratory protection**

If ventilation insufficient, wear respiratory protection. Breathing apparatus in the event of aerosol or mist formation.

#### Hand protection

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

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

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: fluorinated rubber; 0,7mm; 480min; 60min;

#### 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**

		emical properties Colour green		<b>Odour</b> alcoholic	<b>Odour</b> alcoholic		
Odour threshold not determined							
Important health, safety	Important health, safety and environmental information						
	Value	Temperature	at	Method	Remark		
pH value	not determine	d					
boiling point	78 °C						
melting point	-122 °C						
Flash point	not applicable						



	Value	Temperature	at	Method	Remark
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					The product is no self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	0,79 g/cm3				
Vapour density	not determined				
Solubility in water					soluble
Solubility/other			Organic solvent		soluble
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not applicable				
Viscosity kinematic	not applicable				
<b>Oxidising properties</b> No information available.					

### 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

Exothermic reaction with hardener component.



# 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

Gases/vapours, toxic Carbon monoxide and carbon dioxide.

### 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	2000 mg/kg	rat		Propanol		
LD50 acute dermal	2000 mg/kg	rabbit		Propane-2-ol		
LC50 acute inhalation	658 mg/l ()	rat	dust/mist	Propane		
Skin irritation	low irritant effect - not necessary to label					
Eye irritation	irritant					
Skin sensitization	non-sensitizing					
Specific target organ toxicity (single exposure) May cause drowsiness or dizziness.						

### Experiences made from practice

Has a degreasing effect on the skin. Inhalation causes headache/nausea. Causes eye irritation. Inhalation causes narcotic effect/intoxication.

#### Additional information

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded. The product has not been tested. The information is derived from the properties of the individual components.

### **! SECTION 12: Ecological information**

#### 12.1. Toxicity

**Ecotoxicological effects** 



	Value	Species	Method	Validation
Fish	LC50 14,2 g/l (96 h)	Pimephales promelas		Ethanol
Daphnia	LC50 29,6 g/l (24 h)	Brachionus calyciflorus		Ethanol
Algae	EC50 11,89 g/l (96 h)	Green algae		Propan
Bacteria	TGK 1050 mg/l	Pseudomonas putida		Propane-2-ol

### 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**

Harmful to aquatic life with long lasting effects.

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

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

### **! SECTION 13: Disposal considerations**

13.1. Waste treatment methods				
Waste code No.	Name of waste			
16 05 04*	gases in pressure containers (including halons) containing hazardous substances			

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

#### **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

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information					
		ADR/RID	IMDG	IATA-DGR	
	14.1. UN number	1950	1950	1950	



	ADR/RID	IMDG	IATA-DGR
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
<b>14.6. Special precautions for</b> Caution: Gases	user		
<b>14.7. Transport in bulk accor</b> not applicable	ding to Annex II of MA	RPOL 73/78 and the IBC Code	
Land and inland navigation to Hazard label(s) 2.1 tunnel restriction code D	ransport ADR/RID		

### **! SECTION 15: Regulatory information**

Classification code 5F

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

VOC standard	
VOC content	99 %
VOC value	792 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.

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

#### **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: 8.2

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- 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.