

**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Name of product**Crack Testing Agent - Developer  
Code-Nr. 116915**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****Distributor**WEICON GmbH & Co. KG  
Königsberger Str. 255, DE-48157 Münster  
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244  
E-Mail : msds@weicon.de  
Internet : www.weicon.de**Advice**Produktsicherheit / Product-Safety-Department  
Phone : +49(0)251 / 9322 - 0  
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E-mail (competent person):  
msds@weicon.de**1.4. Emergency telephone number**EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:  
++44 1865 407333 (English)  
TRANSPORT EMERGENCY CONTACT - UK, UAE, South  
Africa (24h): Tel: ++44 1865 407333 (English)**Manufacturer**WEICON GmbH & Co. KG  
Königsberger Str. 255, DE-48157 Münster**1.4. Emergency telephone number**GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):  
Tel: ++49 69 222 25285 (Deutsch, Englisch)**! 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
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Aerosol 1	H222, H229	
Eye Irrit. 2	H319	
STOT SE 3	H336	

**Hazard Statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
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.  
 H319 Causes serious eye irritation.  
 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 vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/eye protection.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 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

acetone, propan-2-ol

### 2.3. Other hazards

#### ! 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

#### ! Hazardous ingredients

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 - 25	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336

**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	10 - 25	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
74-98-6	200-827-9	propane	10 - 25	Flam. Gas 1, H220 / Press. Gas
75-28-5	200-857-2	isobutane	1 - 10	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	Butan (1,3 Butadiene <0,1%)	25 - 50	Flam. Gas 1, H220 / Press. Gas, H280

**REACH**

CAS No	Name	REACH registration number
67-63-0	propan-2-ol	01-2119457558-25
67-64-1	acetone	01-2119471330-49
74-98-6	propane	01-2119486944-21
75-28-5	isobutane	01-2119485395-27
106-97-8	Butan (1,3 Butadiene <0,1%)	01-2119474691-32

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

In the event of persistent symptoms receive medical treatment.

**! 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 immediately with soap and water.

Consult a doctor if skin irritation persists.

**! In case of eye contact**

In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

**! In case of ingestion**

Do not induce vomiting.

Refer to medical treatment.

**4.2. Most important symptoms and effects, both acute and delayed****! Physician's information / possible symptoms**

Unconsciousness

vomiting

Respiratory complaints

Confusion

**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

ABC powder

Carbon dioxide

sand

Water spray jet



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**! Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

May lead to formation of explosive/easily ignitable vapour air mixtures.

Danger of bursting

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

**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**

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

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**! 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 surface waters/groundwater.

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

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

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

Ventilate area concerned

After taking up the material dispose according to regulation.

**! Additional Information**

Sort out leaky cans and dispose according to regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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**! SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**! Advice on safe handling**

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

Open and handle container with care!

Provide good room ventilation even at ground level (vapours are heavier than air).

Take the usual precautions when handling with chemicals.

**! General protective measures**

Avoid contact with eyes and skin

Do not inhale aerosols

Ensure sufficient ventilation.

**! Hygiene measures**

At work do not eat, drink and smoke.  
Remove soiled or soaked clothing immediately.  
Work in rooms with good ventilation.  
Wash hands before breaks and after work.

**! Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking  
Pressurized container.  
Protect from heat and sunlight.  
Vapours can form an explosive mixture with air.  
Take precautionary measures against static discharges.

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

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

**! Advice on storage compatibility**

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

**! 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).  
Store at 5 to 40°C (=41 to 104°F).  
Store in a dry 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/m <sup>3</sup> ]	[ppm]	Remark
67-64-1	Acetone	8 hours	1210	500	EH40/2005
		Short-term	3620	1500	
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	
67-63-0	propan-2-ol	8 hours	999	400	EH40/2005
		Short-term	1250	500	

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

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
67-64-1	acetone	8 hours	1210	500	

**DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
67-63-0	propan-2-ol	500 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	

**DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
67-64-1	acetone	888 mg/kg bw/day	DNEL long-term dermal (systemic)	
		186 mg/kg	DNEL long-term dermal (systemic)	
		1210 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		2420 mg/m <sup>3</sup>	DNEL acute inhalative (local)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
67-64-1	acetone	10,6 mg/l	PNEC aquatic, freshwater	
		30,4 mg/kg	PNEC sediment, freshwater	
		1,06 mg/l	PNEC aquatic, marine water	
		3,04 mg/kg	PNEC sediment, marine water	

**! Additional advice**

The statutory local and national regulations have to be observed.

**8.2. Exposure controls****! Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, Filter A/P2

**! 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]: Nitrile rubber; 0,4mm; 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****9.1. Information on basic physical and chemical properties****Appearance**

aerosol

**Colour**

white

**Odour**

like acetone

**Odour threshold**



not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	not determined				
<b>melting point</b>	not determined				
<b>Flash point</b>	not applicable				Aerosol
<b>Vapourisation rate</b>	not applicable				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	365 °C				
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	1,5 Vol-%				
<b>Upper explosion limit</b>	13 Vol-%				
<b>Vapour pressure</b>	2 - 5 bar	20 °C			
<b>Relative density</b>	ca. 0,65 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					No or low immiscibility
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	not determined				
<b>Viscosity kinematic</b>	not determined				
<b>Solvent content</b>	93,6 %				

**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**

Vapours are heavier than air.

**! SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

Reactions with oxidising agents.

**10.4. Conditions to avoid**

Keep away from heat.

**10.5. Incompatible materials****! Substances to avoid**

Oxidising agent

**10.6. Hazardous decomposition products**

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
<b>LD50 acute oral</b>	5045 mg/kg	rat		CAS: 67-63-0
<b>LD50 acute dermal</b>	12800 mg/kg	rabbit		CAS: 67-63-0
<b>LC50 acute inhalation</b>	> 20 mg/l (4 h)	rat		CAS: 75-28-5
<b>Skin irritation</b>	low irritant effect - not necessary to label			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	non-sensitizing			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>				No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>				No indications of toxic effects were observed in reproduction studies in animals.





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Value	Species	Method	Validation
<b>Carcinogenicity</b>			No indications of carcinogenic effects are available from long-term trials.

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**! Specific target organ toxicity (single exposure)**

May cause drowsiness or dizziness.

**! Experiences made from practice**

Vapours may cause dizziness, headaches and tiredness

Inhalation causes headache/nausea.

Frequent contact specially if dried out may cause skin and eye irritations.

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.

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**! SECTION 12: Ecological information****12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

**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**

Do not allow uncontrolled leakage of product into the environment.

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 is given on the basis of details in the literature.

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**! SECTION 13: Disposal considerations****13.1. Waste treatment methods****! Waste code No.**

16 05 04\*

**Name of waste**

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.

Dispose of as hazardous waste.

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**! Recommendations for packaging**

Dispose of according to the local waste regulations.

**! 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
<b>14.1. UN number</b>	1950	1950	1950
<b>14.2. UN proper shipping name</b>	AEROSOLS	AEROSOLS	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>	2.1	2	2.1
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	No	No	No

**14.6. Special precautions for user**

No information available.

**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 93,6 %

**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.

For industrial use only.

**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: 1.0



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 05.08.2019

revision 12.07.2018 (GB) Version 1.1

**Crack Testing Agent - Developer**

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- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.