

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

Name of product Crack Testing Agent - Penetrant
Code-Nr. 116905

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
Fax : +49(0)251 / 9322 - 244
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
Skin Sens. 1	H317
Asp. Tox. 1	
Aquatic Chronic 3	H412

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H317	May cause an allergic skin reaction.

- H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.
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

N-(2-Ethylhexyl)-1-[[3-methyl-4-[(3-methylphenyl)azo] phenyl]azo]naphthalin-2-amin

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**



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Crack Testing Agent - Penetrant**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
75-28-5	200-857-2	isobutane	0,1 < 2,5	Flam. Gas 1, H220 / Press. Gas
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol	10 < 25	Eye Irrit. 2, H319
74-98-6	200-827-9	propane	2,5 < 10	Flam. Gas 1, H220 / Press. Gas, H280
106-97-8	203-448-7	Butan (1,3 Butadiene <0,1%)	25 - 50	Flam. Gas 1, H220 / Press. Gas, H280
64742-47-8	920-107-4	Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	2,5 < 10	Asp. Tox. 1, H304
	918-811-1	Hydrocarbons, C10, aromatics, <1% naphthalene	2,5 < 10	Asp. Tox. 1, H304 / Aquatic Chronic 2, H411 / STOT SE 3, H336
56358-10-2		N-(2-Ethylhexyl)-1-[[3-methyl-4-[[3-methylphenyl]azo] phenyl]azo]naphthalin-2-amin	1 < 2,5	Skin Irrit. 2, H315 / Skin Sens. 1, H317

REACH

CAS No	Name	REACH registration number
75-28-5	isobutane	01-2119485395-27
112-34-5	2-(2-butoxyethoxy)ethanol	01-2119475104-44
74-98-6	propane	01-2119486944-21
106-97-8	Butan (1,3 Butadiene <0,1%)	01-2119474691-32
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	01-2119453414-43
	Hydrocarbons, C10, aromatics, <1% naphthalene	01-2119463583-34

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

Remove moisted clothing immediately.

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 rinse thoroughly with plenty of water and seek medical advice.

! In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

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

Headache

Allergic symptoms

Confusion

skin irritation

4.3. Indication of any immediate medical attention and special treatment needed**! Treatment (Advice to doctor)**

If swallowed or in the event of vomiting, risk of entering the lungs.

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

Alcohol-resistant foam

ABC powder

Carbon dioxide

sand

Water spray jet

! 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 (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.

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.

Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

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

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

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

**! 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

Do not spray on a naked flame or any incandescent material.

Pressurized container.

Protect from heat and sunlight.

The heavy vapours may bridge a long distance to source of ignition.

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/m3]	[ppm]	Remark
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	



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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
112-34-5	2-(2-butoxyethoxy)ethanol	8 hours	67,5	10	
		Short-term	101,2	15	

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
112-34-5	2-(2-butoxyethoxy)ethanol	20 mg/kg	DNEL long-term dermal (systemic)	
		67,5 mg/m3	DNEL acute inhalative (local)	
		101,2 mg/m3	DNEL acute inhalative (local)	

! 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

red

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	not determined				



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	Value	Temperature	at	Method	Remark
Flash point	not applicable				Aerosol
Vapourisation rate	not applicable				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	225 °C				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	0,7 Vol-%				
Upper explosion limit	10 Vol-%				
Vapour pressure	2,5 - 5 bar	20 °C			
Relative density	0,717 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 dynamic	not determined				
Viscosity kinematic	not determined				
Solvent content	70,98 %				
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**

Danger of bursting container.

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
LD50 acute oral	338420 mg/kg	rat		CAS: 112-34-5
LD50 acute dermal	2700 mg/kg	rabbit		CAS: 112-34-5
LC50 acute inhalation	> 20 mg/l (4 h)	rat		CAS: 74-98-6
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	irritant			
Skin sensitization	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.

! Aspiration hazard

May be fatal if swallowed and enters airways.



! Experiences made from practice

Sensitization through skin contact possible.

Inhalation causes headache/nausea.

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

Causes eye irritation.

! 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

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

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.

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.

Harmful to fishes and bacteria.

! 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.

! 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
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	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	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** 70,98 %**15.2. Chemical Safety Assessment**

No information available.

! 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

H220	Extremely flammable gas.
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.



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H411 Toxic to aquatic life with long lasting effects.