

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

· **1.1 Product identifier**

· **Trade name:** Q 50-100-1000 Bitumen UBC

· **Article number:** 50-100-1000

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

No further relevant information available.

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

· **Application of the substance / the mixture** Bitumen coating

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Q-Company Int. GmbH

Beckershof 3

24558 Henstedt-Ulzburg

web: www.qrefinish.com

· **Further information obtainable from:** msds@qrefinish.com

· **1.4 Emergency telephone number:** +49 (0)551-19240 (Giftinformationszentrum-Nord)

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3      H226      Flammable liquid and vapour.



GHS08 health hazard

STOT RE 1      H372      Causes damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411      Toxic to aquatic life with long lasting effects.



GHS07

STOT SE 3      H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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## · Hazard pictograms



GHS02 GHS07 GHS08 GHS09

## · Signal word Danger

## · Hazard-determining components of labelling:

Hydrocarbons, C9, aromatics

Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)

## · Hazard statements

H226 Flammable liquid and vapour.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

## · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe spray.

P280 Wear protective gloves / eye protection.

P242 Use only non-sparking tools.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

## · 3.2 Mixtures

## · Description:

Mixture of bitumen, solvents, fillers and additives

-

## · Dangerous components:

EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	25-<50%
EC number: 919-446-0 Reg.nr.: 01-2119458049-33	Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%) Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	10-<25%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	1.0-<2.5%

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· **Additional information:**

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Water haze  
Fire-extinguishing powder  
Carbon dioxide  
Alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**  
Observe official regulations on storing packagings with pressurised containers.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### · 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### 64-17-5 ethanol

WEL | Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

#### · DNELs

##### Hydrocarbons, C9, aromatics

Oral	DNEL Long term-systemic	11 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	11 mg/kg bw/day (Consumer) 25 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	32 mg/m <sup>3</sup> (Consumer) 100 mg/m <sup>3</sup> (Worker)

##### Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates (2-25%)

Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	26 mg/kg bw/day (Consumer) 44 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	71 mg/m <sup>3</sup> (Consumer) 330 mg/m <sup>3</sup> (Worker)

- **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

##### · Personal protective equipment:

##### · General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.

##### · Respiratory protection:

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Use suitable respiratory protective device in case of insufficient ventilation.
- Filter A/P2

##### · Protection of hands:

- Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

· **Penetration time of glove material**

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

· **Body protection:** Use protective suit. (EN-13034/6)

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Fluid

Colour:

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 142 °C

· **Flash point:**

39 °C

· **Flammability (solid, gas):**

Not applicable.

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:

0.6 Vol %

Upper:

15.0 Vol %

· **Vapour pressure at 20 °C:**

5 hPa

· **Density at 20 °C:**

1.05 g/cm<sup>3</sup>

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

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- |                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| <b>· Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| <b>· Viscosity:</b>                              |                                            |
| <b>Dynamic at 20 °C:</b>                         | 12.000 mPas                                |
| <b>Kinematic at 40 °C:</b>                       | 9.500 mm <sup>2</sup> /s                   |
| <b>· Solvent content:</b>                        |                                            |
| <b>Organic solvents:</b>                         | 43.8 %                                     |
| <b>· Solids content:</b>                         | 55.6 %                                     |
| <b>· 9.2 Other information</b>                   | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### Hydrocarbons, C9, aromatics

Oral	LD50	3295 mg/kg (rat)
Dermal	LD50	>3160 mg/kg (rat)

##### Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	> 3160 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### Hydrocarbons, C9, aromatics

NOELR (72h)	1 mg/l (Pseudokirchneriella subcapitata)
EL50(48h)	3.2 mg/l (Daphnia magna)
LL50 (96h)	9.2 mg/l (Oncorhynchus mykiss (96h))

##### Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)

NOELR (72h)	1 mg/l (Pseudokirchneriella subcapitata)
EL50(48h)	10-22 mg/l (Daphnia magna)
EL50 (72h)	4.6-10 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	10-30 mg/l (Oncorhynchus mykiss (96h))
NOEC (21 days)	0.097 mg/l (Daphnia magna)
LOEC (21 days)	0.203 mg/l (Daphnia magna)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

#### · Ecotoxicological effects:

· **Remark:** Toxic for fish

#### · Additional ecological information:

##### · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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##### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### · 14.1 UN-Number

· **ADR, ADN, IMDG, IATA** UN1139

#### · 14.2 UN proper shipping name

· **ADR, ADN** UN1139 COATING SOLUTION,  
ENVIRONMENTALLY HAZARDOUS

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· **IMDG** COATING SOLUTION (Hydrocarbons,C9,aromatics,  
TURPENTINE SUBSTITUTE), MARINE POLLUTANT  
· **IATA** COATING SOLUTION

· **14.3 Transport hazard class(es)**· **ADR, IMDG**

· **Class** 3 Flammable liquids.  
· **Label** 3

· **ADN**· **ADN/R Class:** 3 Flammable liquids.· **IATA**

· **Class** 3 Flammable liquids.  
· **Label** 3

· **14.4 Packing group**· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances:  
Hydrocarbons,C9,aromatics

· **Marine pollutant:** Yes  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Danger code (Kemler):**

30

· **EMS Number:**F-E,S-E· **Stowage Category**

A

· **14.7 Transport in bulk according to Annex II of  
Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**UN 1139 COATING SOLUTION, 3, III,  
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### SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category
  - E2 Hazardous to the Aquatic Environment
  - P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

#### · National regulations:

Class	Share in %
NK	25-<50

- VOC-CH 43.82 %
- VOC-EU 460.2 g/l
- Danish MAL Code 5-3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

#### · Department issuing SDS:

- Produktsikkerheit
- Research & Development

#### · Contact: Ing. J. Sleumer

#### · Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- Asp. Tox. 1: Aspiration hazard – Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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· **\* Data compared to the previous version altered.** \*

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