

## SAFETY DATA SHEET

Product Name: Qotec Multi Substrate Activator

Product Code: QMSA

Date of issue/Date of revision: 1 March 2021



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

#### 1.1 Product identifier

Product name : Qotec Multi Substrate Activator  
Product code : QMSA  
Other means of identification : Not available

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

Product use : Professional applications, used for spraying  
Use of the substance/mixture : coating

#### 1.3 Details of the supplier of the safety data sheet

Qotec Nano Coatings BV  
Nijverheidsweg 7  
4731 CZ Oudenbosch  
Netherlands  
Telephone: +31 (0)165 315 350  
Email: info@qotec.nl

#### 1.4 Email address of person responsible for this SDS

info@Qotec.nl

#### 1.5 Emergency telephone number supplier

Telephone: +31 (0)165 315 350

Conforms to Regulation (EC) No 1907/2006 (REACH), Annex II, As amended by  
Regulation (EU) No. 2015 – United Kingdom (UK)

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### SECTION 2: Hazards identification

#### 2 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.1 Label Elements

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

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

Hazards Pictograms :



Signal word

Danger

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### ***Hazard-determining components of***

***labelling:*** Xylene

Ethyl acetate

Solvent naphtha (petroleum), light arom.

Ethylbenzene

### **Hazard statements**

H225 Highly flammable liquid and vapour. H315

Causes skin irritation.

H319 Causes serious eye irritation.

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

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful 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.

P103 Read label before use.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if

present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

## 2.2 Other hazards

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**Results of PBT and vPvB assessment PBT:** Not applicable.

**vPvB:** Not applicable.

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### SECTION 3: Composition/information in ingredients

#### 3.2 Chemical Characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

CAS: 141-78-6 EINECS: 205-500-4  Reg.nr.: 01-2119475103-46	ethyl acetate  Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 1330-20-7 EINECS: 215-535-7  Reg.nr.: 01-2119488216-32	Xylene  Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 64742-95-6  EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226; Asp. Tox. 1, H304	2.5-<10%
CAS: 123-42-2 EINECS: 204-626-7  Reg.nr.: 01-2119473975-21	4-hydroxy-4- methylpentan-2-one  Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4  Reg.nr.: 01-2119489370-35	Ethylbenzene	2.5-<10%

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	<p><i>Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;</i></p> <p><i>Aquatic Chronic 3, H412</i></p>	
<p><i>CAS: 95-63-6 EINECS: 202-436-9</i></p>	<p><i>1,2,4-trimethylbenzene</i></p> <p><i>Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</i></p>	<p><i>2.5-&lt;10%</i></p>

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

General Information	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Eye Contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
Skin Contact	Immediately wash with water and soap and rinse thoroughly. Generally the product does not irritate the skin.
Ingestion	If swallowed, seek medical advice immediately.

#### Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

No further relevant information available.

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### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing media

Suitable Extinguishing media      CO<sub>2</sub>, sand, extinguishing powder. Do not use  
Media    water.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance      No further relevant information available.  
or mixture

#### 5.3 Advice for firefighters

Special precautions for              Mouth respiratory protective device.  
firefighters

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Personal precautions, protective equipment and emergency procedures

##### 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).

Dispose contaminated material as waste according to item 13.

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.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

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.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Store away from foodstuffs.

#### **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 3

#### 7.3 Specific End use(s)

No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits

Ingredients with limit values that require monitoring at the workplace:

##### **141-78-6 ethyl acetate**

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

##### **1330-20-7 Xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

##### **123-42-2 4-hydroxy-4-methylpentan-2-one**

WEL Short-term value: 362 mg/m<sup>3</sup>, 75 ppm  
Long-term value: 241 mg/m<sup>3</sup>, 50 ppm

##### **100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

##### **95-63-6 1,2,4-trimethylbenzene**

WEL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm  
ILV

Ingredients with biological limit values:

##### **1330-20-7 Xylene**

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift

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Parameter: methyl hippuric acid

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

### 8.2 Control parameters

#### **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.  
Avoid contact with the eyes and skin.

##### **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.

##### **Protection of hands:**

Protective gloves (EN 374)  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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 resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### **Breakthrough time of glove material**

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

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### **Eye protection:**

Tightly sealed goggles

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### 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:** 77-78 °C

**Flash point:** 10 °C (DIN EN ISO 1523:2002)

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** 430 °C (DIN 51794)

**Decomposition temperature:** Not determined.

**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:** 1.1 Vol %

**Upper:** 11.5 Vol %

**Vapour pressure at 20 °C:** 97 hPa

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**Density at 20 °C:** 0.911 g/cm<sup>3</sup> (DIN EN ISO 2811-1)

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Partition coefficient: n-octanol/water:** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic at 20 °C:** 13 s (DIN 53211/4)

**Solvent content:**

**VOC (EC)** 95.53 %

**Solids content (weight-%):** 4.3 %

**9.2 Other information** No further relevant information available.

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### 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:

Carbon monoxide

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### 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:

##### 1330-20-7 Xylene

Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)

##### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)

#### Primary irritant effect:

##### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### 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.

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### **STOT-single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### **Aquatic toxicity:**

No further relevant information available.

#### 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:** Harmful to fish

##### **Additional ecological information:**

##### **General notes:**

Water hazard class 2 (German Regulation) : 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.

Harmful to 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.

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### 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

##### **Uncleaned packaging:**

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

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### SECTION 14: Transport information

#### 14.1 UN-Number

**ADR, IMDG, IATA** UN1263

#### 14.2 UN proper shipping name

**ADR** UN1263 PAINT  
**IMDG, IATA** PAINT

#### 14.3 Transport hazard class(es)

**ADR**  
**Class** 3 (F1) Flammable liquids.  
**Label** 3

**IMDG, IATA**  
**Class** 3 Flammable liquids.  
**Label** 3

#### 14.4 Packing group

**ADR, IMDG, IATA** II

#### 14.5 Environmental hazards:

**Marine pollutant:** No

#### 14.6 Special precautions for user

Warning: Flammable liquids.  
Danger code (Kemler): 33  
EMS Number: F-E,S-E  
Stowage Category B

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

Not applicable.

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### Transport/Additional information:

#### ADR

Transport category	2
Tunnel restriction code	D/E

#### IMDG

Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT, 3, II

## 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** P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements**  
5,000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements**  
50,000 t

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

#### National regulations:

Class	Share in %
NK	50-100

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Regulatory 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.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

#### Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### Abbreviations and acronyms:

- 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

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2:

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

Aquatic Chronic 3:

Hazardous to the aquatic environment - long-term aquatic hazard –  
Category 3

\* Data compared to the previous version altered.