

## SAFETY DATA SHEET

[info@deffner-johann.de](mailto:info@deffner-johann.de) | +49 9723 9350-0

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# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 1

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Petroleum Spirit 30 - 75 °C

*Article No.:* 2308 301, 2308 304

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Industrial application*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Deffner & Johann GmbH

*Address:* Mühlackerstraße 13, D-97520 Röthlein, Germany

*Tel./Fax.:* Tel. +49 9723 9350-0, Fax +49 9723 9350-25

*Internet:* www.deffner-johann.de

*E-Mail:* E-Mail info@deffner-johann.de

*Importer:*

#### 1.4. Emergency No.

*Tel. +49 9723 9350-0 (Mo. - Fr.: 8:00 - 15:00 Uhr)*

*Emergency No.:*

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*Flammable liquids, hazard category 2*

*Aspiration hazard, hazard category 1*

*Skin irritation, hazard category 2*

*Specific Target Organ Toxicity (single exposure), hazard category 3*

*Chronic aquatic toxicity, hazard category 2*

H225 Highly flammable liquid and vapour.

Cat.: 2

H304 May be fatal if swallowed and enters airways.

Cat.: 1

H315 Causes skin irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

H411 Toxic to aquatic life with long lasting effects.

Cat.: 2

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

next page: 2

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 2

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

### Hazard designation:



GHS02-2



GHS07



GHS08



GHS09

### Signal word:

Danger

### Hazard designation:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

### Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P301+P310	If swallowed: Immediately call a poison center or physician.
P331	Do not induce vomiting.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool.

### Hazardous components for labelling:

Pentane  
Hydrocarbons, C6, isoalkanes, <5 % n-hexane  
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

### 2.3. Other Hazards

No information available.

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

#### Chemical Characterization:

Mixture

#### Information on Components / Hazardous Ingredients:

Pentane (H224-304-336-411); REACH Reg. No.

next page: 3

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 3

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

01-2119459286-30-xxxx	40 - 60 %	CAS-Nr: 109-66-0 EINECS-Nr: 203-692-4 EC-Nr: 601-006-00-1
Hydrocarbons, C6, Isoalkane, <5% n-Hexane (H225-315-304-336); REACH Reg. No. 01-2119484651-34-xxxx	25 - 35 %	CAS-Nr: EINECS-Nr: 931-254-9 EC-Nr:
Hydrocarbons, C6-C7, Isoalkanes, Cyclics, <5% n-Hexane (H225-304-336-411); REACH Reg. No. 01-2119486291-36-0000	15 - 25 %	CAS-Nr: EINECS-Nr: 926-605-8 EC-Nr:

### Additional information:

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

#### General information:

*Take person away from hazardous area.  
Remove contaminated clothes immediately.*

#### After inhalation:

*Take affected person to fresh air.  
Consult physician immediately.  
In case of unconsciousness place patient stable in side position for transportation.  
Give artificial respiration in case breathing is not regular or if it has stopped.*

#### After skin contact:

*Wash off immediately with soap and plenty of water and rinse thoroughly.*

#### After eye contact:

*Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.*

#### After ingestion:

*Do not induce vomiting. Consult physician immediately.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

#### Symptoms:

*Headache, dizziness, tiredness, numbness, drowsiness, dry skin, skin redness, itching, depression of the central nervous system.*

#### Effects:

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

#### Treatment:

*Treat symptomatically.  
If vomiting occurs after ingestion, aspiration into the lungs can occur which can cause a chemical pneumonia or suffocation.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

next page: 4

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 4

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Flammable liquid.*

*Fumes can form an explosive mixture with air.*

*The vapor is heavier than air, spreads along the ground and distant ignition is possible.*

*Product floats on water surface and may reignite.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

*Cool exposed containers with water mist.*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

---

## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

*Keep away from sources of ignition. No smoking.*

*Close leaks without taking any risk.*

*Ensure adequate ventilation.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

*Contact local authorities if product pollutes soil or vegetation.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.*

*Larger amounts should be contained by means of an explosion-proof pump.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid the formation of aerosol.*

*Avoid contact with eyes and skin.*

next page: 5

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 5

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

*Do not breathe vapors, spray or gas.*

*Hygienic measures:*

*Take off contaminated clothing immediately.*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Store in a room with a solvent-proof floor.*

*Suitable container material: stainless steel, carbon steel, polyethylene, polypropylene, polyester, Teflon.*

*Unsuitable container material: natural rubber, butyl rubber, polystyrol, EDPM.*

*Information on fire and explosion protection:*

*Do not store together with: oxidants.*

*Combustible liquid.*

*Vapors may form an explosive mixture with air.*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Use only in explosion protective area. Extinguish any naked flames. No not smoke. Remove ignition sources. Avoid sparks.*

*Ensure electrical continuity by bonding and grounding (earthing) all equipment.*

*Storage class:*

*3; Flammable liquids (TRGS 510)*

*Further Information:*

*The product is slightly hazardous to water. Consider national regulations regarding handling and storage.*

### 7.3. Specific End Use(s)

*Further information:*

*No information available.*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

*Pentane (CAS 109-66-0): ELV (TRGS 900): 3000 mg/m<sup>3</sup>; 1000 ml/m<sup>3</sup> (2)*

*Parameters to be controlled:*

*Pentane (CAS 109-66-0): TWA 3000 mg/m<sup>3</sup>; 1000 ppm (EC ELV)*

*Pentane (CAS 109-66-0): MAK (AT; CH): 1800 mg/m<sup>3</sup>; 600 ppm (8h Average Value)*

next page: 6

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 6

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

### Derived No-Effect Level (DNEL):

*Pentane (CAS 109-66-0):*

*3000 mg/m<sup>3</sup> (worker, inhalation, chronic exposure - systemic effects)*

*432 mg/kg bw/d (worker, skin contact, chronic exposure - systemic effects)*

*Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane:*

*5306 mg/m<sup>3</sup> (worker, inhalation, chronic exposure - systemic effects)*

*13964 mg/kg/day (worker, skin contact, chronic exposure - systemic effects)*

*Hydrocarbons, C6-C7, Isoalkanes, Cyclics, <5 % n-Hexane:*

*5306 mg/m<sup>3</sup> (worker, inhalation, chronic exposure - systemic effects)*

*13964 mg/kg/day (worker, skin contact, chronic exposure - systemic effects)*

### Predicted No-Effect Concentration (PNEC):

*Pentane:*

*Fresh water / Sea water: 230 µg/l*

*Fresh water sediment / Sea water sediment: 1.2 mg/kg*

*Intermittent release: 880 µg/l*

*Sewage treatment system (STP): 3600 µg/l*

*Soil: 0.55 mg/kg*

### Additional Information:

#### 8.2. Exposure Controls

##### Technical protective measures:

*Adequate ventilation to control airborne concentrations below the exposure limits.*

*No further measures, see Section 7 and 8.*

##### Personal Protection

##### General protective measures:

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Do not inhale gas/fumes/vapor/aerosol.*

*Avoid contact with eyes and skin.*

##### Respiratory protection:

*Respirator mask required if ventilation is insufficient. Wear filter respirator in case of short-term or low exposure, and wear a self-contained breathing apparatus in case of long-term or higher exposure.*

*Recommended: filter AX.*

##### Hand protection:

*Each work area must have adequate protective gloves.*

*The manufacturer's directions for use should be observed because of the great diversity of types.*

*Protective gloves should be changed regularly, especially after intensive contact with the product.*

next page: 7

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 7

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

### Protective gloves

#### Protective glove material:

*Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.*

*Nitrile rubber (> 120 min, 0,40 mm)*

*Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.*

#### Eye protection:

*Tightly fitting safety goggles (EN 166).*

#### Body protection:

*Protective clothing, solvent resistant*

#### Environmental precautions:

*Avoid contamination of sewage system, open water ways and ground water.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

Form:	liquid
Color:	colorless
Odor:	characteristic
Odor threshold:	No information available.
pH-Value:	not determined
Melting temperature:	-153.6°C (101.3 kPa)
Boiling temperature:	> 36°C
Flash point:	< 0°C
Evaporation rate:	not determined
Flammability (solid, gas):	not applicable
Upper explosion limit:	8.3 Vol. %
Lower explosion limit:	1.0 Vol. %
Vapor pressure:	40 hPa (20°C)
Vapor density:	No information available.
Density:	0.65 - 0.68 g/cm <sup>3</sup> (20°C)
Solubility in water:	not miscible
Coefficient of variation (n-Octanol/Water):	

next page: 8



# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 8

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

*no information available*

*Auto-ignition temperature: 200°C*

*Decomposition temperature: No data available.*

*Viscosity, dynamic: not available*

*Explosive properties: Product is not explosive; however, an explosive vapor/air mixture can be formed.*

*Oxidizing properties: none*

*Bulk density: not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic: 0.3 - 1.4 mm<sup>2</sup>/s (20°C)*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Temperature class: T4 (maximum temperature: 135°C)*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Formation of explosive vapor-air-mixtures possible.  
Hazardous polymerisation will not occur.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid contact with heat, sparks and open fire.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*In case of fire: formation of carbon oxides.*

### 10.7. Further Information

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next page: 9

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 9

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*Is not classified as acutely toxic.*

*LD50, oral:*

*> 5840 mg/kg (rat)*

*LD50, dermal:*

*> 2920 mg/kg (rabbit)*

*LC50, inhalation:*

*> 25.2 mg/l (4h, rat)*

*Primary effects*

*Irritant effect on skin:*

*Irritating to skin.*

*Irritant effect on eyes:*

*Causes eye ailments, however does not damage the eye tissue.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No mutagenic effects known.*

*Reproductive toxicity:*

*No negative effects known.*

*Carcinogenicity:*

*Not cancerogenic.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure: may cause drowsiness or dizziness.*

*Repeated exposure: no information available.*

*Additional toxicological information:*

*Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis.*

*Inhalation: Long-term overexposure may cause headache, dizziness, tiredness, nausea and vomiting.*

*Aspiration toxicity: may be fatal if swallowed and enters airways.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: 4.26 mg/l (96h, *Oncorhynchus mykiss*)*

*Pentane: LL50: 27.55 mg/l (96h, fish)*

*Hydrocarbons, C6, Isoalkanes, < 5% n-Hexane: LL50: 18.27 mg/l*

*next page: 10*

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 10

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

(96h, fish)

Hydrocarbons, C6-C7, Isoalkanes, Cyclics, < 5% n-Hexane: LL50: 12 mg/l (96h; *Oncorhynchus mykiss*)

### *Daphnia* toxicity:

EC50: 2.7 mg/l (48h, *Daphnia magna*)

Pentane: EC50: 2.8 mg/l (48h, *Daphnia magna*); EL50: 48.11 mg/l (96h, *Daphnia magna*)

Hydrocarbons, C6, Isoalkanes, < 5% n-Hexane: EL50: 31.9 mg/l (48h, *Daphnia magna*)

Hydrocarbons, C6-C7, Isoalkanes, Cyclics, < 5% n-Hexane: EL50: 17.06 mg/l (48h, *Daphnia magna*)

### *Bacteria* toxicity:

no information available

### *Algae* toxicity:

EC50: 10.7 mg/l (72h, *Pseudokirchneriella subcapitata*)

NOEC: 7.51 mg/l (72h, *Pseudokirchneriella subcapitata*)

## 12.2. Persistency and Degradability

The product floats on the water surface and does not dissolve.

The product evaporates easily from water surface.

Readily biodegradable (> 60 %, 28d).

Pentane: Biochemical oxygen demand (BOD): 3 % (7d) (ECHA)

Hydrocarbons, C6, Isoalkanes, < 5% n-Hexane: Biochemical oxygen demand (BOD): 83 % (10d) (ECHA)

Hydrocarbons, C6-C7, Isoalkanes, Cyclics, < 5% n-Hexane: Biochemical oxygen demand (BOD): 83 % (10d) (ECHA)

## 12.3. Bioaccumulation

Product has the potential to bioaccumulate.

Pentane: BCF: 171; log KOW: 3.45 (pH Value: 7, 25°C)

Hydrocarbons, C6, Isoalkanes, <5% n-Hexane: BCF: 501.2; log KOW: 3.6 (pH Value: 7, 20°C)

Hydrocarbons, C6-C7, Isoalkanes, Cyclics, <5% n-Hexane: log KOW: 3.6 (pH Value: 7, 20°C)

## 12.4. Mobility

Product is readily volatile and spreads fast in the air.

Presumably no distribution takes place on the sediment layer and effluent.

## 12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

## 12.6. Other Adverse Effects

### *Water hazard class:*

Do not allow undiluted product or large quantities of it to reach ground water, waterways or sewage system.

### *Behaviour in sewage systems:*

### *Further ecological effects:*

Toxic to water organisms.

May cause long-term adverse effects in the aquatic environment.

next page: 11

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 11

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

*Harmful to aquatic organisms.*

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*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Must not be disposed together with household garbage.  
Product can be incinerated, when in compliance with local regulations.*

*European Waste Code (EWC):*

*The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.*

*Uncleaned packaging:*

*Dispose of according to official local regulations.  
Empty container completely. Residues may cause an explosion hazard.  
Do not puncture, cut or weld uncleaned drums. Risk of explosion.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA* 3295

#### 14.2. UN Proper Shipping Name

*ADR/RID:* KOHLENWASSERSTOFFE, FLÜSSIG, N.A.G. (Pentane); SV 640D

*IMDG/IATA:* HYDROCARBONS, LIQUID, N.O.S. (Pentane); SP 640D

#### 14.3. Transport Hazard Classes

*ADR Class:* 3

*Hazard no.:* 3

*Classification code:* F1

*Tunnel restriction code:* D/E

*IMDG Class (sea):* 3

*Hazard no.:* 3

*EmS No.:* F-E, S-D

*IATA Class:* 3

*Hazard no.:* 3

#### 14.4. Packaging Group

*ADR/RID:* II

*IMDG:* II

*IATA:* II

#### 14.5. Environmental Hazards

*Labelling according 5.2.1.8 ADR/RID: fish and tree*

next page: 12

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# deffner & Johann

2308 301  
2308 304

## Petroleum Spirit 30 - 75 °C

Page 12

Revised edition: 04.02.2020

Version: 4

Printed: 15.04.2021

---

*Labelling according 5.2.1.6.3 IMDG: fish and tree*  
*Classification as environmentally hazardous according 2.9.3*  
*IMDG: yes*

**14.6. Special Precautions for User**

*not applicable*

**14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code**

*IMDG: not applicable*

**14.8. Further Information**

*Special Provision: 640D*

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**15. Regulatory Information**

**15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture**

*Water hazard class:*

*2, hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Underlies the Accident Ordinance 9b*

*Employment restrictions:*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.*

*Restriction and prohibition of application:*

*Pentane:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 40*

*Technical instructions on air quality:*

**15.2. Chemical Safety Assessment**

*No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.*

**15.3. Further Information**

*Decopaint Directive (2004/42/EC):*

*VOC Content: 50 %*

*Directive 2010/75/EC on Industrial Emissions:*

*VOC Content: 100 %*

*Fire hazard class (German "Flammable Liquids Ordinance" (VbF)):  
A1 (flammable liquids of group A, hazardous class 1)*

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**16. Other Information**

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*