1 Identification

- **Product identifier**
  - **Product number**: PA39
  - **Trade name**: **BLACK POLYURETHANE SEALER**
  - Application of the substance / the mixture: For professional use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: IVM Chemicals srl
    Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441
  - **Importers**
    - Name I.C.& S. DISTRIBUTING CO.
    - Address: P.O.BOX 10845 LANCASTER. PA USA
    - E-Mail: nelson@ics-company.com
  - **Information department**: Environmental Health and safety office
    hseoffice@ivmchemicals.com
  - **Emergency telephone number**: ChemTel Expert Assistance Hotline/MSDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - GHS02 Flame
    Flam. Liq. 2 H225 Highly flammable liquid and vapor.
  - GHS08 Health hazard
    Carc. 2 H351 Suspected of causing cancer.
    STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.
    Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
  - GHS07 Skin Irrit. 2 H315 Causes skin irritation.
    Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    GHS02 GHS07 GHS08...

(Contd. on page 2)
Safety Data Sheet
acc. to OSHA HCS

Product number PA39
Trade name: BLACK POLYURETHANE SEALER

· Signal word Danger
· Hazard-determining components of labeling:
xylene
ethylbenzene
Solvent naphtha (petroleum), light arom.
z-octadec-9-enilammina
· Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H340 May be fatal if swallowed and enters airways.
· Precautionary statements
P210 Keep away from heat/sparks/open Flames/hot surfaces. - No smoking.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
   Health = 2
   Fire = 3
   Reactivity = 0
· HMIS-ratings (scale 0 - 4)
   HEALTH 2
   Fire 3
   Reactivity 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures
· Description: Mixture: consisting of the following components.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
</tr>
<tr>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td>STOT RE 2, H373; Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>123-42-2 4-hydroxy-4-methylpentan-2-one</td>
</tr>
<tr>
<td>Flam. Liq. 4, H227</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
## 4 First-aid measures

### Description of first aid measures

**General information:**
Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Personal protective equipment for first aid responders is recommended. (please see section 8)

**After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Take off immediately all contaminated clothing, include underwear and shoes (if necessary). Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

**After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Do not induce vomiting; immediately call for medical help.

**Information for doctor:**
- Most important symptoms and effects, both acute and delayed
  For symptoms and effects caused by substances, refer to Section 11. No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media**
- Suitable extinguishing agents: Alcohol resistant foam, CO, powder, water spray/mist.
For safety reasons unsuitable extinguishing agents:
Do not use a jet water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Advice for firefighters
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

Protective equipment:
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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 Section 13.
Ensure adequate ventilation.

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.

Protective Action Criteria for Chemicals

| PAC-1: | 471-34-1 calcium carbonate | 45 mg/m³ |
| 1330-20-7 xylene | 130 ppm |
| 123-42-2 4-hydroxy-4-methylpentan-2-one | 150 ppm |
| 110-19-0 isobutyl acetate | 450 ppm |
| 100-41-4 ethylbenzene | 33 ppm |
| 123-86-4 n-butyl acetate | 5 ppm |
| 546-93-0 Magnesite | 45 mg/m³² |
| 108-65-6 2-methoxy-1-methylethyl acetate | 50 ppm |
| 108-10-1 4-methylpentan-2-one | 75 ppm |

| PAC-2: | 471-34-1 calcium carbonate | 210 mg/m³³ |
| 1330-20-7 xylene | 920* ppm |
| 123-42-2 4-hydroxy-4-methylpentan-2-one | 350 ppm |
| 110-19-0 isobutyl acetate | 1300* ppm |
| 100-41-4 ethylbenzene | 1100* ppm |
| 123-86-4 n-butyl acetate | 200 ppm |
| 546-93-0 Magnesite | 260 mg/m³² |
| 108-65-6 2-methoxy-1-methylethyl acetate | 1,000 ppm |
| 108-10-1 4-methylpentan-2-one | 500 ppm |

(Contd. of page 3)
(Contd. on page 5)
7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
    Prevent formation of aerosols.
    Protect against electrostatic charges.
    Keep respiratory protective device available.
    Use explosion-proof apparatus / fittings and spark-proof tools.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
    Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles:
      Store in a cool, well-ventilated area, away from heat and sources of ignition
      Provide solvent resistant, sealed floor.
      Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
      In cases where there is no reported expiration date , it means that the product must be used within 8 months.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions:
      Keep receptacle tightly sealed.
      Store in cool, dry conditions in well sealed receptacles.
  - Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

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

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    At this time, the other constituents have no known exposure limits.

(Contd. on page 6)
# Safety Data Sheet acc. to OSHA HCS

Product number PA39  
Trade name: BLACK POLYURETHANE SEALER

## 110-19-0 isobutyl acetate

<table>
<thead>
<tr>
<th>PEL (USA)</th>
<th>Long-term value: 700 mg/m³, 150 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 700 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 238 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

## 100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th>PEL (USA)</th>
<th>Long-term value: 435 mg/m³, 100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 545 mg/m³, 125 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 87 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

## 123-86-4 n-butyl acetate

<table>
<thead>
<tr>
<th>PEL (USA)</th>
<th>Long-term value: 710 mg/m³, 150 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 950 mg/m³, 200 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 238 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

## 108-65-6 2-methoxy-1-methylethyl acetate

| WEEL (USA)      | Long-term value: 50 ppm            |

## 108-10-1 4-methylpentan-2-one

<table>
<thead>
<tr>
<th>PEL (USA)</th>
<th>Long-term value: 410 mg/m³, 100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 300 mg/m³, 75 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 205 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 307 mg/m³, 75 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 82 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

---

### Ingredients with biological limit values:

#### 1330-20-7 xylene

<table>
<thead>
<tr>
<th>BEI (USA)</th>
<th>1.5 g/g creatinine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Methylhippuric acids</td>
</tr>
</tbody>
</table>

#### 100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th>BEI (USA)</th>
<th>0.7 g/g creatinine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift at end of workweek</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</td>
</tr>
</tbody>
</table>

- Medium: end-exhaled air  
  Time: not critical  
  Parameter: Ethyl benzene (semi-quantitative)

#### 108-10-1 4-methylpentan-2-one

<table>
<thead>
<tr>
<th>BEI (USA)</th>
<th>1 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>MIBK</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
**Additional information:** The lists that were valid during the creation were used as basis.

**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.
    - Store protective clothing separately.
    - Avoid contact with the eyes and skin.

- **Breathing equipment:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**
  - **Protective gloves**
    - Due to missing tests no recommendation to the glove material can be given for the product.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - The glove material has to be impermeable and resistant to the product.
    - **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.
      - **Penetration 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.

- **Eye protection:**
  - **Tightly sealed goggles**

---

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th><strong>Information on basic physical and chemical properties</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong> Fluid</td>
</tr>
<tr>
<td><strong>Form:</strong> Fluid</td>
</tr>
<tr>
<td><strong>Color:</strong> According to product specification</td>
</tr>
<tr>
<td><strong>Odor:</strong> Characteristic</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>pH-value:</strong> Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Change in condition</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melting point/Melting range:</strong> Undetermined.</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range:</strong> 78 °C (172.4 °F)</td>
</tr>
</tbody>
</table>

| **Flash point:** 18 °C (64.4 °F)                          |
| **Flammability (solid, gaseous):** Not applicable.        |
49.0.14

· Ignition temperature: 315 °C (599 °F)
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:
  · Lower: 1 Vol %
  · Upper: 10.8 Vol %

· Vapor pressure at 20 °C (68 °F): 20 hPa (15 mm Hg)
· Density (+/- 0.03) at 20 °C (68 °F): 1.262 g/cm³ (10.531 lbs/gal)
  · Relative density: Not determined.
  · Vapor 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 (68 °F): 40 s (ISO 4 mm)
· Oxidising properties: N.A.

· Solvent content:
  · Water: 0.1 %
  · VOC content:
    · 440.0 g/l / 3.67 lb/gal
  · Solids content: 65.0 %

· Other information (HAPS) No further relevant information available.

1330-20-7 xylene 15-19.99%
100-41-4 ethylbenzene 2.5-4.99%
108-10-1 4-methylpentan-2-one 0.5-1%

· Other information No further relevant information available.

10 Stability and reactivity

· Reactivity typical of the product as indicated in the data sheet
· Chemical stability The product is stable in normal conditions of storage and use recommended
  · Thermal decomposition / conditions to be avoided:
    No decomposition if used and stored according to specifications.
· Possibility of hazardous reactions
Reacts with oxidizing agents.
Vapours may form explosive mixtures with air
· Conditions to avoid No further relevant information available.
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products:
in case of possible formation of combustion:
## 11 Toxicological information

### Information on toxicological effects

- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Values (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Inhalative LC50/4h (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>Oral: 3,523, Dermal: 12,126</td>
<td>LC50/4h: 27.571</td>
<td></td>
</tr>
<tr>
<td>123-42-2 4-hydroxy-4-methylpentan-2-one</td>
<td>Oral: 3,002, Dermal: 13,630</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>Oral: 13,400, Dermal: 17,401</td>
<td>LC50/4h: 31</td>
<td></td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>Oral: 3,500, Dermal: 15,486</td>
<td>LC50/4h: 17.2</td>
<td></td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>Oral: 10,760, Dermal: 14,000</td>
<td>LC50/4h: 21.1</td>
<td></td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>Oral: 8,532, Dermal: 5,001</td>
<td>LC50/4h: 35.7</td>
<td></td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
<td>Oral: 2,080, Dermal: 16,000</td>
<td>LC50/4h: 16.6</td>
<td></td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>Oral: 10,470, Dermal: 20,000</td>
<td>LC50/4h: 124.7</td>
<td></td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**
  - Irritant
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause respiratory irritation.
May cause damage to the hearing organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Contains Fatty acids, tallow, oleylamine compounds. May produce an allergic reaction.

- Carcinogenic categories
  Carbon Black
  IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to carbon black but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as paint."
  Ethylbenzene
  From IARC MONOGRAPHS VOLUME 77/2000
  Human carcinogenicity data
  Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

  Evaluation
  There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

- IARC (International Agency for Research on Cancer - Cl. 1 and 2)

<table>
<thead>
<tr>
<th>CAS_number</th>
<th>Substance</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>2B</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>2B DUST</td>
</tr>
<tr>
<td>108-10-1</td>
<td>4-methylpentan-2-one</td>
<td>2B</td>
</tr>
</tbody>
</table>

- NTP (National Toxicology Program)
  None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS_number</th>
<th>Substance</th>
<th>EC50</th>
<th>LC50 48h</th>
<th>LC50 96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>2.2 mg/l (algae) (72h)</td>
<td>1 mg/l (daphnia)</td>
<td>2.6 mg/l (Fish)</td>
</tr>
<tr>
<td>123-42-2</td>
<td>4-hydroxy-4-methylpentan-2-one</td>
<td>1,001 mg/l (algae) (72 h)</td>
<td>1,000 mg/l (daphnia) (48 h)</td>
<td>101 mg/l (Fish)</td>
</tr>
<tr>
<td>110-19-0</td>
<td>Isobutyl acetate</td>
<td>370 mg/l (algae) (72 h)</td>
<td>25 mg/l (daphnia)</td>
<td>17 mg/l (Fish)</td>
</tr>
</tbody>
</table>
### 100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th></th>
<th>EC50</th>
<th>LC50 (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>438 mg/l (algae) (72h)</td>
<td>1.8 mg/l (daphnia) (48 h)</td>
</tr>
<tr>
<td>LC50 (96h)</td>
<td>12.1 mg/l (Fish)</td>
<td></td>
</tr>
</tbody>
</table>

### 123-86-4 n-butyl acetate

<table>
<thead>
<tr>
<th></th>
<th>EC50</th>
<th>LC50 (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>397 mg/l (algae) (72 h)</td>
<td>44 mg/l (daphnia) (48 h)</td>
</tr>
<tr>
<td>LC50 (96h)</td>
<td>18 mg/l (Fish)</td>
<td></td>
</tr>
</tbody>
</table>

### 108-65-6 2-methoxy-1-methylethyl acetate

<table>
<thead>
<tr>
<th></th>
<th>EC50</th>
<th>LC50 (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>1,001 mg/l (algae) (72 h)</td>
<td>501 mg/l (daphnia) (48 h)</td>
</tr>
<tr>
<td>LC50 (96h)</td>
<td>134 mg/l (Fish)</td>
<td></td>
</tr>
</tbody>
</table>

### 108-10-1 4-methylpentan-2-one

<table>
<thead>
<tr>
<th></th>
<th>EC50</th>
<th>LC50 (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>201 mg/l (daphnia) (48 h)</td>
<td></td>
</tr>
<tr>
<td>LC50 (96h)</td>
<td>180 mg/l (Fish)</td>
<td></td>
</tr>
</tbody>
</table>

### 64-17-5 ethanol

<table>
<thead>
<tr>
<th></th>
<th>EC50</th>
<th>LC50 (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>5,012 mg/l (daphnia) (48 h)</td>
<td></td>
</tr>
<tr>
<td>LC50 (96h)</td>
<td>15.3 mg/l (Fish)</td>
<td></td>
</tr>
</tbody>
</table>

- **Persistence and degradability**: No further relevant information available.
- **Substances Easily biodegradable**
  - 1330-20-7 xylene
  - 123-42-2 4-hydroxy-4-methylpentan-2-one
  - 110-19-0 isobutyl acetate
  - 100-41-4 ethylbenzene
  - 123-86-4 n-butyl acetate
  - 108-65-6 2-methoxy-1-methylethyl acetate
  - 108-10-1 4-methylpentan-2-one
  - 64-17-5 ethanol

- **Behavior in environmental systems**:
  - **Bioaccumulative potential**: No further relevant information available.
  - **Mobility in soil**: No further relevant information available.
- **Additional ecological information**:
  - **General notes**:
    - Water hazard class 2 (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.
- **Other adverse effects**: No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation**:
    - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
    - Hand over to hazardous waste disposers.
    - Dispose of contents and container in accordance with local state and federal regulations.
### 14 Transport information

- **UN-Number**
  - DOT NA1263
  - IMDG, IATA UN1263

- **UN proper shipping name**
  - DOT Paint
  - IMDG, IATA PAINT

- **Transport hazard class(es)**
  - DOT
    - Class 3
    - Label 3
    - Class 3
    - Label 3

- **IMDG, IATA**
  - Class 3
  - Label 3

- **Packing group**
  - DOT, IMDG, IATA III

- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Warning: Flammable liquids
  - Danger code (Kemler): -
  - EMS Number: F-E,S,E
  - Stowage Category: A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - 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
49.0.14

- UN "Model Regulation":
  UN 1263 PAINT, 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  Requirements of Federal Register
    - SARA
      - Section 355 (extremely hazardous substances):
        None of the ingredients is listed.
      - Section 313 (Specific toxic chemical listings):
        1330-20-7 xylene 15-19.99%
        100-41-4 ethylbenzene 2.5-4.99%
        108-10-1 4-methylpentan-2-one 0.5-1%
        67-63-0 propan-2-ol <0.01%
        78-93-3 butanone <0.01%
    - TSCA (Toxic Substances Control Act):
      All components have the value ACTIVE.
    - Hazardous Air Pollutants
      1330-20-7 xylene
      100-41-4 ethylbenzene
      108-10-1 4-methylpentan-2-one
    - Proposition 65
      - Chemicals known to cause cancer:
        Carbon black only in bound form
      - Chemicals known to cause reproductive toxicity for females:
        70657-70-4 2-methoxypropyl acetate <0.01%
      - Chemicals known to cause reproductive toxicity for males:
        None of the ingredients is listed.
    - Chemicals known to cause developmental toxicity:
      108-10-1 4-methylpentan-2-one 0.5-1%
      64-17-5 ethanol <0.5%
    - Carcinogenic categories
      - EPA (Environmental Protection Agency)
        1330-20-7 xylene I 15-19.99%
        100-41-4 ethylbenzene D 2.5-4.99%
        108-10-1 4-methylpentan-2-one I 0.5-1%
        78-93-3 butanone I <0.01%
      - TLV (Threshold Limit Value established by ACGIH)
        1330-20-7 xylene A4
        14807-96-6 Talc (Mg3H2(SiO3)4) A4

(Contd. on page 14)
Product number PA39
Trade name: BLACK POLYURETHANE SEALER

(Contd. of page 13)

<table>
<thead>
<tr>
<th>Number</th>
<th>Chemical</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>A3</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>A4</td>
</tr>
<tr>
<td>64-17-5</td>
<td>ethanol</td>
<td>A3</td>
</tr>
<tr>
<td>67-63-0</td>
<td>propan-2-ol</td>
<td>A4</td>
</tr>
</tbody>
</table>

- NIOSH-Ca (National Institute for Occupational Safety and Health)

<table>
<thead>
<tr>
<th>Number</th>
<th>Chemical</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>1-2.49%</td>
</tr>
</tbody>
</table>

- National regulations:
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

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

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.

- Department issuing SDS: IVM Chemicals Srl
- Contact: See emergency phone
- Date of preparation / last revision 07/19/2019 / 69
- Abbreviations and acronyms:
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Flam. Liq. 4: Flammable liquids – Category 4
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - Carc. 2: Carcinogenicity – 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- Sources
  - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments
  - Agency ECHA web site
  - INRS Fiche Toxicologique
  - IARC International agency for research on cancer
  - * Data compared to the previous version altered.