1 Identification

- **Product identifier**
  - **Product number:** PI29
  - **Trade name:** BLACK POLYESTER UNDERCOAT
    - 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
  - **1.3.2 Importer**
    - 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.
    - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
    - STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.
  - 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
49.4.0

· Signal word Danger

· Hazard-determining components of labeling:
  styrene
  toluene

· Hazard statements
  H225 Highly flammable liquid and vapor.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H351 Suspected of causing cancer.
  H361 Suspected of damaging fertility or the unborn child.
  H372 Causes damage to the hearing organs through prolonged or repeated exposure.

· Precautionary statements
  P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  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.
  P405 Store locked up.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
  · NFPA ratings (scale 0 - 4)
    ![NFPA Ratings]
    Health = 2
    Fire = 3
    Reactivity = 0
  · HMIS-ratings (scale 0 - 4)
    ![HMIS Ratings]
    HEALTH Health = 2
    FIRE Fire = 3
    REACTIVITY Reactivity = 0

3 Composition/information on ingredients

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

  · Dangerous components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-42-5</td>
<td>styrene</td>
<td>20-24.99%</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, H226</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319</td>
<td></td>
</tr>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>5-9.99%</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, H225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2A, H319; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>1-2.49%</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, H225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3, H412</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>100-42-5 styrene</td>
<td>20 ppm</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>200 ppm</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>67 ppm</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>450 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>210 mg/m³</td>
</tr>
<tr>
<td>100-42-5 styrene</td>
<td>130 ppm</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>3200* ppm</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>560 ppm</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>1300* ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>1,300 mg/m³</td>
</tr>
<tr>
<td>100-42-5 styrene</td>
<td>1100* ppm</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>5700* ppm</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>3700* ppm</td>
</tr>
<tr>
<td>110-19-0 isobutyl acetate</td>
<td>7500** ppm</td>
</tr>
</tbody>
</table>

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.
  - 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>67-64-1 acetone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>100-42-5 styrene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>400 mg/g creatinine</td>
</tr>
<tr>
<td>Medium: urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)</td>
<td></td>
</tr>
<tr>
<td>0.2 mg/L</td>
<td>Medium: venous blood</td>
</tr>
<tr>
<td>Time: end of shift</td>
<td></td>
</tr>
<tr>
<td>Parameter: Styrene (semi-quantitative)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>67-64-1 acetone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>50 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Acetone (nonspecific)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>108-88-3 toluene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>0.02 mg/L</td>
</tr>
<tr>
<td>Medium: blood</td>
<td>Time: prior to last shift of workweek</td>
</tr>
<tr>
<td>Parameter: Toluene</td>
<td></td>
</tr>
<tr>
<td>0.03 mg/L</td>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
<td></td>
</tr>
<tr>
<td>Parameter: Toluene</td>
<td></td>
</tr>
<tr>
<td>0.3 mg/g creatinine</td>
<td></td>
</tr>
<tr>
<td>Medium: urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: o-Cresol with hydrolysis (background)</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Fluid</td>
</tr>
<tr>
<td>Color</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

#### Change in condition

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>56 °C (132.8 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>-17 °C (1.4 °F)</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
49.4.0
· Flammability (solid, gaseous): Not applicable.
· Ignition temperature: >370 °C (>698 °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: 1.2 Vol %
  · Upper: 13 Vol %
· Vapor pressure at 20 °C (68 °F): 233 hPa (174.8 mm Hg)
· Density (+/- 0.03) at 20 °C (68 °F): 1.257 g/cm³ (10.49 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:
  · VOC content: 22.94 %
  · 288.4 g/l / 2.41 lb/gal
· Solids content:
  · 91.9 %
· Other information (HAPS)
  · No further relevant information available.
  · 100-42-5 styrene 20-24.99%
  · 108-88-3 toluene 1-2.49%
  · 1330-20-7 xylene <0.1%
  · 100-41-4 ethylbenzene <0.1%
  · 108-31-6 maleic anhydride <0.01%
· Other information
  · No further relevant information available.

10 Stability and reactivity

· Reactivity
  · typical of the product as indicated in the data sheet
  · Chemical stability
    Polymerise spontaneously, if not inhibited, with rapid increase of temperature. In closed containers, has also rapid increase of ression. Polymerise violently with reaction that can be explosive by the action of light, heat, strong acids or perossidi. Presence of inhibitors reduces - but does not eliminate - the tendency to polymerization.
    · Thermal decomposition / conditions to be avoided:
      Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 ° C
  · Possibility of hazardous reactions
    Exothermic polymerization.
Reacts with acids, alkalis and oxidizing agents.
Vapours may form explosive mixtures with air
· **Conditions to avoid**
  - Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C
· **Incompatible materials:** Acids, alkalis and oxidizing agents
· **Hazardous decomposition products:**
  - in case of possible formation of combustion:
  - Carbon monoxide and carbon dioxide

### 11 Toxicological information

#### Information on toxicological effects

- **Acute toxicity:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-42-5 styrene</td>
<td>5,000 mg/kg</td>
<td>2,001 mg/kg</td>
<td>11.8 mg/l</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>5,800 mg/kg</td>
<td>20,000 mg/kg</td>
<td>76 mg/l</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>5,000 mg/kg</td>
<td>12,124 mg/kg</td>
<td>25.7 mg/l</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.
  - Suspected of damaging the unborn child.
  - May cause respiratory irritation.
  - Causes damage to the hearing organs through prolonged or repeated exposure.
  - May be fatal if swallowed and enters airways.

- **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."
  - Styrene
    - An increased incidence of lung tumors was observed in mice from an inhalation study on styrene. The relevance of this finding to humans is uncertain since data from mode of action investigations of mouse lung tumors coupled with other long-term animal studies and epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.
49.4.0 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)
  - 100-42-5 styrene 2B
  - 1333-86-4 Carbon black 2B DUST
  - 100-41-4 ethylbenzene 2B

- NTP (National Toxicology Program)
  - 100-42-5 styrene 20-24.99%

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

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - 100-42-5 styrene
      - EC50: 4.9 mg/l (algae) (72 h)
      - 4.7 mg/l (daphnia) (48 h)
      - LC50 (96h): 4.02 mg/l (Fish)
    - 67-64-1 acetone
      - EC50: 8,800 mg/l (daphnia)
      - LC50 (96h): 5,540 mg/l (Fish)
    - 108-88-3 toluene
      - EC50: 134 mg/l (algae) (96 h)
      - 3.78 mg/l (daphnia) (48 h)
      - LC50 (96h): 5.5 mg/l (Fish)

- Persistence and degradability
  - Data refers to the substance Toluene CAS No. 108-88-3
  - Readily biodegradable (according to OECD criteria and/or EU RAR)
    - Substances Easily biodegradable:
      - 100-42-5 styrene
      - 67-64-1 acetone
      - 108-88-3 toluene

- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: 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.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official 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 Flammable liquids
    - **Label**
      3
    - **Class**
      3 Flammable liquids
    - **Label**
      3

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

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

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

- **Special precautions for user**
  - **Warning:** Flammable liquids
Product number PI29
Trade name: BLACK POLYESTER UNDERCOAT

· Danger code (Kemler): 33
· EMS Number: F-E,S-E
· Stowage Category: B

· 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: E2
  · Maximum net quantity per inner packaging: 30 ml
  · Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1263 PAINT, 3, II

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):
      100-42-5 styrene 20-24.99%
      108-88-3 toluene 1-2.49%
      1330-20-7 xylene <0.1%
      100-41-4 ethylbenzene <0.1%
      108-31-6 maleic anhydride <0.01%
      1338-02-9 Naphthenic acids, copper salts <0.01%
      142-71-2 copper di(acetate) <0.01%
      120-80-9 1,2-dihydroxybenzene <0.01%
  · TSCA (Toxic Substances Control Act):
    All components have the value ACTIVE.
  · Hazardous Air Pollutants
    100-42-5 styrene
    108-88-3 toluene
    1330-20-7 xylene
    100-41-4 ethylbenzene
    108-31-6 maleic anhydride
  · Proposition 65
    · Chemicals known to cause cancer:
      Carbon black only in bound form
      100-42-5 styrene 20-24.99%
      1333-86-4 Carbon black <0.5%
100-41-4 ethylbenzene  

- Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  108-88-3 toluene 1-2.49%

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    - 67-64-1 acetone I 5-9.99%
    - 108-88-3 toluene II 1-2.49%
    - 1330-20-7 xylene I <0.1%
    - 100-41-4 ethylbenzene D <0.1%

  - TLV (Threshold Limit Value established by ACGIH)
    - 100-42-5 styrene A4
    - 67-64-1 acetone A4
    - 108-88-3 toluene A4
    - 112945-52-5 silicon dioxide A4
    - 1333-86-4 Carbon black A4
    - 1330-20-7 xylene A4
    - 100-41-4 ethylbenzene A3
    - 108-31-6 maleic anhydride A4

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    - 1333-86-4 Carbon black <0.5%

- 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 08/09/2019 / 56
- 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

(Contd. on page 13)
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
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
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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