1 Identification

· Product identifier
· Trade name: Custom Standard
· Part number: CUS-8765
· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  ULTRA Scientific, inc.
  250 Smith Street
  North Kingstown, RI  02852
  USA
· Information department:
  Telephone: (401) 294-9400
  Fax: (401) 295-2300
  E-mail: regulatory@ultrasci.com
· Emergency telephone number:
  US: (800) 424-9300
  Outside US: (703) 527-3887

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. 1B  H350 May cause cancer.
  GHS07
  Acute Tox. 4  H312 Harmful in contact with skin.
  Acute Tox. 4  H332 Harmful if inhaled.
  Eye Irrit. 2A  H319 Causes serious eye irritation.
  Skin Sens. 1  H317 May cause an allergic skin reaction.
  STOT SE 3  H336 May cause drowsiness or dizziness.

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

· Signal word Danger

(Contd. on page 2)
Hazard-determining components of labeling:
- acetone
- acenaphthylene
- benzo[a]pyrene
- dibenz[a,h]anthracene
- anthracene

Hazard statements
- Highly flammable liquid and vapor.
- Harmful in contact with skin or if inhaled.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause cancer.
- May cause drowsiness or dizziness.

Precautionary statements
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If INHALED: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTER/doctor if you feel unwell.
- Specific treatment (see on this label).
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Wash contaminated clothing before reuse.
- In case of fire: Use for extinction: CO2, powder or water spray.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)
- Health = 1
- Fire = 3
- Reactivity = 0

HMIS-ratings (scale 0 - 4)
- Health = *1
- Fire = 3
- Reactivity = 0
3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>98.243%</td>
</tr>
<tr>
<td>120-12-7 anthracene</td>
<td>0.253%</td>
</tr>
<tr>
<td>91-20-3 naphthalene</td>
<td>0.253%</td>
</tr>
<tr>
<td>50-32-8 benzo[a]pyrene</td>
<td>0.0253%</td>
</tr>
<tr>
<td>53-70-3 dibenz[a,h]anthracene</td>
<td>0.0253%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- **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.
- **After inhalation:**
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
  If symptoms persist consult doctor.
- **Information for doctor:**
  **Most important symptoms and effects, both acute and delayed** 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:**
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
  Water with full jet
- **Special hazards arising from the substance or mixture**
  No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
  Mouth respiratory protective device.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.

- **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 item 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:**

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Chemical</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>200 ppm</td>
</tr>
<tr>
<td>83-32-9</td>
<td>acenaphthene</td>
<td>3.6 mg/m³</td>
</tr>
<tr>
<td>120-12-7</td>
<td>anthracene</td>
<td>48 mg/m³</td>
</tr>
<tr>
<td>86-73-7</td>
<td>fluorene</td>
<td>6.6 mg/m³</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>15 ppm</td>
</tr>
<tr>
<td>208-96-8</td>
<td>acenaphthylene</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>85-01-8</td>
<td>phenanthrene</td>
<td>5.4 mg/m³</td>
</tr>
<tr>
<td>218-01-9</td>
<td>chrysene</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td>129-00-0</td>
<td>pyrene</td>
<td>0.15 mg/m³</td>
</tr>
<tr>
<td>56-55-3</td>
<td>benz[a]anthracene</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td>205-99-2</td>
<td>benz[e]acephenanthrylene</td>
<td>0.12 mg/m³</td>
</tr>
<tr>
<td>191-24-2</td>
<td>benzo[ghi]perylene</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td>53-70-3</td>
<td>dibenz[a,h]anthracene</td>
<td>0.093 mg/m³</td>
</tr>
<tr>
<td>206-44-0</td>
<td>fluoranthene</td>
<td>8.2 mg/m³</td>
</tr>
<tr>
<td>193-39-5</td>
<td>indeno[1,2,3-cd]pyrene</td>
<td>1.2 mg/m³</td>
</tr>
</tbody>
</table>

  **PAC-2:**

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Chemical</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>3200* ppm</td>
</tr>
<tr>
<td>83-32-9</td>
<td>acenaphthene</td>
<td>40 mg/m³</td>
</tr>
<tr>
<td>120-12-7</td>
<td>anthracene</td>
<td>530 mg/m³</td>
</tr>
<tr>
<td>86-73-7</td>
<td>fluorene</td>
<td>72 mg/m³</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>83 ppm</td>
</tr>
<tr>
<td>208-96-8</td>
<td>acenaphthylene</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td>85-01-8</td>
<td>phenanthrene</td>
<td>59 mg/m³</td>
</tr>
<tr>
<td>218-01-9</td>
<td>chrysene</td>
<td>12 mg/m³</td>
</tr>
<tr>
<td>129-00-0</td>
<td>pyrene</td>
<td>1.7 mg/m³</td>
</tr>
<tr>
<td>56-55-3</td>
<td>benz[a]anthracene</td>
<td>120 mg/m³</td>
</tr>
<tr>
<td>205-99-2</td>
<td>benz[e]acephenanthrylene</td>
<td>1.3 mg/m³</td>
</tr>
<tr>
<td>191-24-2</td>
<td>benzo[ghi]perylene</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>120 mg/m³</td>
</tr>
</tbody>
</table>
Trade name: Custom Standard

- PAC-3:
  - 67-64-1 acetone 5700* ppm
  - 83-32-9 acenaphthene 240 mg/m3
  - 120-12-7 anthracene 3,200 mg/m3
  - 86-73-7 fluorene 430 mg/m3
  - 91-20-3 naphthalene 500 ppm
  - 208-96-8 acenaphthylene 660 mg/m3
  - 85-01-8 phenanthrene 360 mg/m3
  - 218-01-9 chrysene 69 mg/m3
  - 129-00-0 pyrene 110 mg/m3
  - 56-55-3 benz[a]anthracene 700 mg/m3
  - 205-99-2 benz[e]acephenanthrylene 7.9 mg/m3
  - 191-24-2 benzo[ghi]perylene 2,000 mg/m3
  - 50-32-8 benzo[a]pyrene 700 mg/m3
  - 53-70-3 dibenz[a,h]anthracene 2.9 mg/m3
  - 206-44-0 fluoranthene 400 mg/m3
  - 193-39-5 indeno[1,2,3-cd]pyrene 79 mg/m3

7 Handling and storage

- Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.

- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - 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) No further relevant information available.

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.
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>2400 mg/m³, 1000 ppm</td>
<td>590 mg/m³, 250 ppm</td>
<td>1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>91-20-3 naphthalene</td>
<td>50 mg/m³, 10 ppm</td>
<td>75 mg/m³, 15 ppm</td>
<td>50 mg/m³, 10 ppm</td>
</tr>
<tr>
<td>50-32-8 benzo[a]pyrene</td>
<td>0.2 mg/m³</td>
<td>0.1 mg/m³</td>
<td>52 mg/m³, 10 ppm</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Substance</th>
<th>BEI Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>50 mg/L</td>
<td>end of shift</td>
<td>Acetone (nonspecific)</td>
</tr>
<tr>
<td>50-32-8 benzo[a]pyrene</td>
<td>-</td>
<td>end of shift at end of workweek</td>
<td>1-Hydroxypyrene with hydrolysis (nonquantitative)</td>
</tr>
</tbody>
</table>

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

Exposure controls:

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.
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
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

- **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

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Fluid
    - **Color:** Colorless
  - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.
- **Change in condition**
  - **Melting point/Melting range:** -94.7°C (°F)
  - **Boiling point/Boiling range:** 55.8-56.6°C (°F)
- **Flash point:** -17°C (°F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 465°C (°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:** 2.6 Vol %
  - **Upper:** 13 Vol %
- **Vapor pressure at 20°C (68 °F):** 175 hPa (mm Hg)
- **Density at 20°C (68 °F):** 0.8 g/cm³ (lbs/gal)
  - **Relative density** Not determined.
  - **Vapor density** Not determined.
  - **Evaporation rate** Not determined.
Trade name: Custom Standard

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 20°C (68 °F): 32 mPas
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 98.2 %
  - VOC content:
    - 0.00 %
    - 0.0 g/l / 0.00 lb/gl
- **Solids content:** 0.0 %
- **Other information:** No further relevant information available.

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Information on toxicological effects:**
  - **Acute toxicity:**
    - **LD/LC50 values that are relevant for classification:**
      - **ATE (Acute Toxicity Estimate):**
        - Dermal LD50 1,978 mg/kg
        - Inhalative LC50/4 h 19.8 mg/L
      - 67-64-1 acetone
        - Oral LD50 5,800 mg/kg (rat)
        - Dermal LD50 20,000 mg/kg (rabbit)
      - 91-20-3 naphthalene
        - Oral LD50 490 mg/kg (rat)
        - Dermal LD50 5,000 mg/kg (rat)
        - 20,000 mg/kg (rabbit)
      - 208-96-8 acenaphthylene
        - Oral LD50 1,760 mg/kg (mouse)

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
  - **Sensitization:** Sensitization possible through skin contact.
Trade name: Custom Standard

- **Additional toxicological information:**
  The product shows the following dangers according to internally approved calculation methods for preparations:
  - Harmful
  - Irritant

- **Carcinogenic categories**

  **IARC (International Agency for Research on Cancer)**
  - 83-32-9 acenaphthene
  - 120-12-7 anthracene
  - 86-73-7 fluorene
  - 91-20-3 naphthalene
  - 85-01-8 phenanthrene
  - 218-01-9 chrysene
  - 129-00-0 pyrene
  - 56-55-3 benz[a]anthracene
  - 205-99-2 benz[e]acephenanthrylene
  - 191-24-2 benzo[ghi]perylene
  - 50-32-8 benzo[a]pyrene
  - 53-70-3 dibenz[a,h]anthracene
  - 206-44-0 fluoranthene
  - 193-39-5 indeno[1,2,3-cd]pyrene
  - 207-08-9 benzo[k]fluoranthene

  **NTP (National Toxicology Program)**
  - 120-12-7 anthracene
  - 86-73-7 fluorene
  - 91-20-3 naphthalene
  - 85-01-8 phenanthrene
  - 218-01-9 chrysene
  - 129-00-0 pyrene
  - 56-55-3 benz[a]anthracene
  - 205-99-2 benz[e]acephenanthrylene
  - 50-32-8 benzo[a]pyrene
  - 53-70-3 dibenz[a,h]anthracene
  - 206-44-0 fluoranthene
  - 193-39-5 indeno[1,2,3-cd]pyrene
  - 207-08-9 benzo[k]fluoranthene

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

---

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

(Contd on page 10)
45.2.5 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 3 (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
- Results of PBT and vPvB assessment
  - PBT: 120-12-7 anthracene
  - vPvB: Not applicable.
  - 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.

Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information
- UN-Number
  - DOT, IMDG, IATA: UN1090
- UN proper shipping name
  - DOT: Acetone
  - IMDG: ACETONE, MARINE POLLUTANT
  - IATA: ACETONE

Transport hazard class(es)
- DOT
  - Class: 3 Flammable liquids
  - Label: 3
- IMDG
  - Class: 3 Flammable liquids
## Label
- **Class**: 3 Flammable liquids

## IATA
- **Symbol (fish and tree)**

## Environmental hazards:
- Product contains environmentally hazardous substances: anthracene, benz[a]anthracene
- **Marine pollutant**: Symbol (fish and tree)

## Special precautions for user
- **Warning**: Flammable liquids
- **Danger code (Kemler)**: 33
- **EMS Number**: F-E,S-D
- **Stowage Category**: E

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- **Stowage Category**: E
- **Transport/Additional information**: Not applicable.

## DOT
- **Quantity limitations**
  - On passenger aircraft/rail: 5 L
  - On cargo aircraft only: 60 L

## IMDG
- **Limited quantities (LQ)**: 1L
- **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 1090 ACETONE, 3, II, ENVIRONMENTALLY HAZARDOUS**

### 15 Regulatory information

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

#### Sara

- **Section 355 (extremely hazardous substances)**:
  - 129-00-0 pyrene

- **Section 313 (Specific toxic chemical listings)**:
  - 120-12-7 anthracene
  - 91-20-3 naphthalene
  - 85-01-8 phenanthrene
  - 218-01-9 chrysene
  - 56-55-3 benz[a]anthracene
  - 205-99-2 benz[e]acephenanthrylene
### Trade name: Custom Standard

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>191-24-2</td>
<td>benzo[ghi]perylene</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
</tr>
<tr>
<td>53-70-3</td>
<td>dibenz[a,h]anthracene</td>
</tr>
<tr>
<td>206-44-0</td>
<td>fluoranthene</td>
</tr>
<tr>
<td>193-39-5</td>
<td>indeno[1,2,3-cd]pyrene</td>
</tr>
<tr>
<td>207-08-9</td>
<td>benzo[k]fluoranthene</td>
</tr>
</tbody>
</table>

### TSCA (Toxic Substances Control Act):

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
</tr>
<tr>
<td>83-32-9</td>
<td>acenaphthene</td>
</tr>
<tr>
<td>120-12-7</td>
<td>anthracene</td>
</tr>
<tr>
<td>86-73-7</td>
<td>fluorene</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
</tr>
<tr>
<td>208-96-8</td>
<td>acenaphthylene</td>
</tr>
<tr>
<td>85-01-8</td>
<td>phenanthrene</td>
</tr>
<tr>
<td>218-01-9</td>
<td>chrysene</td>
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<td>benzo[a]pyrene</td>
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<td>dibenz[a,h]anthracene</td>
</tr>
<tr>
<td>206-44-0</td>
<td>fluoranthene</td>
</tr>
<tr>
<td>193-39-5</td>
<td>indeno[1,2,3-cd]pyrene</td>
</tr>
</tbody>
</table>

### Proposition 65

- **Chemicals known to cause cancer:**
  - 91-20-3 naphthalene
  - 218-01-9 chrysene
  - 56-55-3 benz[a]anthracene
  - 205-99-2 benz[e]acephenanthrylene
  - 50-32-8 benzo[a]pyrene
  - 53-70-3 dibenz[a,h]anthracene
  - 193-39-5 indeno[1,2,3-cd]pyrene
  - 207-08-9 benzo[k]fluoranthene

- **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:**
  None of the ingredients is listed.

### Carcinogenic categories

- **EPA (Environmental Protection Agency)**
  
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>I</td>
</tr>
<tr>
<td>83-32-9</td>
<td>acenaphthene</td>
<td>A (oral)</td>
</tr>
<tr>
<td>120-12-7</td>
<td>anthracene</td>
<td>D</td>
</tr>
</tbody>
</table>

(Contd. on page 13)
### Trade name: Custom Standard

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-73-7</td>
<td>fluorene</td>
<td>D</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>C, CBD</td>
</tr>
<tr>
<td>208-96-8</td>
<td>acenaphthylene</td>
<td>D</td>
</tr>
<tr>
<td>85-01-8</td>
<td>phenanthrene</td>
<td>D</td>
</tr>
<tr>
<td>218-01-9</td>
<td>chrysene</td>
<td>B2</td>
</tr>
<tr>
<td>129-00-0</td>
<td>pyrene</td>
<td>D</td>
</tr>
<tr>
<td>56-55-3</td>
<td>benzo[a]anthracene</td>
<td>B2</td>
</tr>
<tr>
<td>205-99-2</td>
<td>benz[e]acephenanthrylene</td>
<td>B2</td>
</tr>
<tr>
<td>191-24-2</td>
<td>benzo[ghi]perylene</td>
<td>D</td>
</tr>
<tr>
<td>50-32-8</td>
<td>benzo[a]pyrene</td>
<td>B2</td>
</tr>
<tr>
<td>53-70-3</td>
<td>dibenz[a,h]anthracene</td>
<td>B2</td>
</tr>
<tr>
<td>206-44-0</td>
<td>fluoranthene</td>
<td>D</td>
</tr>
<tr>
<td>193-39-5</td>
<td>indeno[1,2,3-cd]pyrene</td>
<td>B2</td>
</tr>
<tr>
<td>207-08-9</td>
<td>benzo[k]fluoranthene</td>
<td>B2</td>
</tr>
</tbody>
</table>

- **TLV (Threshold Limit Value established by ACGIH)**
  - 67-64-1 acetone A4
  - 91-20-3 naphthalene A4
  - 218-01-9 chrysene A3
  - 56-55-3 benzo[a]anthracene A2
  - 205-99-2 benz[e]acephenanthrylene A2
  - 50-32-8 benzo[a]pyrene A2

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 218-01-9 chrysene
  - 50-32-8 benzo[a]pyrene

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

  ![GHS02](GHS02.png) ![GHS07](GHS07.png) ![GHS08](GHS08.png)

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  - acetone
  - acenaphthylene
  - benzo[a]pyrene
  - dibenz[a,h]anthracene
  - anthracene
- **Hazard statements**
  - Highly flammable liquid and vapor.
  - Harmful in contact with skin or if inhaled.
  - Causes serious eye irritation.
  - May cause an allergic skin reaction.
  - May cause cancer.
  - May cause drowsiness or dizziness.
Trade name: Custom Standard

- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.
  - Contaminated work clothing must not be allowed out of the workplace.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF EXPOSED or concerned: Get medical advice/attention.
  - Call a POISON CENTER/doctor if you feel unwell.
  - Specific treatment (see on this label).
  - If skin irritation or rash occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
  - Take off contaminated clothing and wash it before reuse.
  - Wash contaminated clothing before reuse.
  - In case of fire: Use for extinguition: CO2, powder or water spray.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**
  - **Additional classification according to Decree on Hazardous Materials:**
    - Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**
  - Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
  - Exceptions can be made by the authorities in certain cases.

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

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**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.

- **Date of preparation / last revision** 08/09/2017 / -

- **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
  - 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)
Trade name: Custom Standard

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3