1 Identification

· Product identifier
· Trade name: Custom Standard
· Part number: CUS-8453
· 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: +1-800-424-9300
  Outside US: +1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

  GHS06 Skull and crossbones
  Acute Tox. 3  H311  Toxic in contact with skin.

  GHS08 Health hazard
  Resp. Sens. 1  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Muta. 1B  H340  May cause genetic defects.
  Carc. 1B  H350  May cause cancer.
  Repr. 1  H360  May damage fertility or the unborn child.

  GHS07
  Acute Tox. 4  H302  Harmful if swallowed.
  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2A  H319  Causes serious eye irritation.
  Skin Sens. 1  H317  May cause an allergic skin reaction.

· Label elements
· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  
  GHS06  GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  dichloromethane
  1,2-dinitrobenzene
  nitrobenzene
  2-nitrotoluene
  quintozene (ISO)

- **Hazard statements**
  Harmful if swallowed.
  Toxic in contact with skin.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  May cause an allergic skin reaction.
  May cause genetic defects.
  May cause cancer.
  May damage fertility or the unborn child.

- **Precautionary statements**
  Obtain special instructions before use.  
  Do not handle until all safety precautions have been read and understood.  
  Avoid breathing dust/fume/gas/mist/vapors/spray  
  Wash thoroughly after handling.  
  Do not eat, drink or smoke when using this product.  
  Contaminated work clothing must not be allowed out of the workplace.  
  Wear protective gloves/protective clothing/eye protection/face protection.  
  [In case of inadequate ventilation] wear respiratory protection.  
  If swallowed: Call a poison center/doctor if you feel unwell.  
  If on skin: Wash with plenty of water.  
  If inhaled: If breathing is difficult, 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.  
  Specific treatment (see on this label).  
  Rinse mouth.  
  If skin irritation or rash occurs: Get medical advice/attention.  
  If eye irritation persists: Get medical advice/attention.  
  If experiencing respiratory symptoms: Call a poison center/doctor.  
  Take off immediately all contaminated clothing and wash it before reuse.  
  Store locked up.  
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**
  
  Health = 2
  Fire = 0
  Reactivity = 0

(Contd. of page 1)
Safety Data Sheet
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HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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>75-09-2 dichloromethane</td>
<td>97.889%</td>
</tr>
<tr>
<td>121-14-2 2,4-dinitrotoluene</td>
<td>0.151%</td>
</tr>
<tr>
<td>606-20-2 2,6-dinitrotoluene</td>
<td>0.151%</td>
</tr>
<tr>
<td>98-95-3 nitrobenzene</td>
<td>0.151%</td>
</tr>
<tr>
<td>82-68-8 quintozene (ISO)</td>
<td>0.151%</td>
</tr>
<tr>
<td>100-00-5 1-chloro-4-nitrobenzene</td>
<td>0.151%</td>
</tr>
<tr>
<td>88-72-2 2-nitrotoluene</td>
<td>0.151%</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. In case of irregular breathing or respiratory arrest provide artificial respiration.
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: Immediately call a 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: Use fire fighting measures that suit the environment.
Special hazards arising from the substance or mixture: No further relevant information available.
Trade name: Custom Standard

- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- 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:
  - 75-09-2 dichloromethane 200 ppm
  - 121-14-2 2,4-dinitrotoluene 0.6 mg/m³
  - 606-20-2 2,6-dinitrotoluene 0.6 mg/m³
  - 98-95-3 nitrobenzene 3 ppm
  - 82-68-8 quintozene (ISO) 1.5 mg/m³
  - 99-08-1 3-nitrotoluene 6 ppm
  - 99-99-0 4-nitrotoluene 6 ppm
  - 100-00-5 1-chloro-4-nitrobenzene 1.9 mg/m³
  - 121-73-3 1-chloro-3-nitrobenzene 0.9 mg/m³
  - 97-00-7 1-chloro-2,4-dinitrobenzene 1.6 mg/m³
  - 99-65-0 1,3-dinitrobenzene 3 mg/m³
  - 88-72-2 2-nitrotoluene 6 ppm

- PAC-2:
  - 75-09-2 dichloromethane 560 ppm
  - 121-14-2 2,4-dinitrotoluene 12 mg/m³
  - 606-20-2 2,6-dinitrotoluene 47 mg/m³
  - 98-95-3 nitrobenzene 20 ppm
  - 82-68-8 quintozene (ISO) 28 mg/m³
  - 99-08-1 3-nitrotoluene 14 ppm
  - 99-99-0 4-nitrotoluene 33 ppm
  - 100-00-5 1-chloro-4-nitrobenzene 170 mg/m³
  - 121-73-3 1-chloro-3-nitrobenzene 9.9 mg/m³
  - 97-00-7 1-chloro-2,4-dinitrobenzene 18 mg/m³
  - 99-65-0 1,3-dinitrobenzene 33 mg/m³
  - 88-72-2 2-nitrotoluene 33 ppm

- PAC-3:
  - 75-09-2 dichloromethane 6,900 ppm
  - 121-14-2 2,4-dinitrotoluene 200 mg/m³

(Contd. on page 5)
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>606-20-2</td>
<td>2,6-dinitrotoluene</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>98-95-3</td>
<td>nitrobenzene</td>
<td>200 ppm</td>
</tr>
<tr>
<td>82-68-8</td>
<td>quintozene (ISO)</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>99-08-1</td>
<td>3-nitrotoluene</td>
<td>200 ppm</td>
</tr>
<tr>
<td>99-99-0</td>
<td>4-nitrotoluene</td>
<td>200 ppm</td>
</tr>
<tr>
<td>100-00-5</td>
<td>1-chloro-4-nitrobenzene</td>
<td>1,000 mg/m³</td>
</tr>
<tr>
<td>121-73-3</td>
<td>1-chloro-3-nitrobenzene</td>
<td>59 mg/m³</td>
</tr>
<tr>
<td>97-00-7</td>
<td>1-chloro-2,4-dinitrobenzene</td>
<td>150 mg/m³</td>
</tr>
<tr>
<td>99-65-0</td>
<td>1,3-dinitrobenzene</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>88-72-2</td>
<td>2-nitrotoluene</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** No special requirements.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
  - **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.

75-09-2 dichloromethane

- **PEL**
  - Short-term value: 125 ppm
  - Long-term value: 25 ppm
  - See 29 CFR 1910.1052

- **REL**
  - See Pocket Guide App. A

- **TLV**
  - Long-term value: 174 mg/m³, 50 ppm
  - BEI

98-95-3 nitrobenzene

- **PEL**
  - Long-term value: 5 mg/m³, 1 ppm
  - Skin

- **REL**
  - Long-term value: 5 mg/m³, 1 ppm
  - Skin

- **TLV**
  - Long-term value: 5 mg/m³, 1 ppm
  - Skin; BEI
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TLV Long-term value:</th>
<th>PEL Long-term value:</th>
<th>REL Skin; BEI-M</th>
<th>Skin Long-term value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-68-8 quintozene (ISO)</td>
<td>0.5 mg/m³</td>
<td>1 mg/m³</td>
<td>0.64 mg/m³, 0.1 ppm</td>
<td>11 mg/m³, 2 ppm</td>
</tr>
<tr>
<td>100-00-5 1-chloro-4-nitrobenzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>88-72-2 2-nitrotoluene</td>
<td>30 mg/m³, 5 ppm</td>
<td>11 mg/m³, 2 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values:**
  - **75-09-2 dichloromethane**
    - BEI 0.3 mg/L
    - Medium: urine
    - Time: end of shift
    - Parameter: Dichloromethane (semi-quantitative)
  - **98-95-3 nitrobenzene**
    - BEI 5 mg/g creatinine
    - Medium: urine
    - Time: end of shift at end of workweek
    - Parameter: Total p-nitrophenol (nonspecific)
    - 1.5 % of hemoglobin
    - Medium: blood
    - Time: end of shift
    - Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
  - **100-00-5 1-chloro-4-nitrobenzene**
    - BEI 1.5 % of hemoglobin
    - Medium: blood
    - Time: during or end of shift
    - Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
  - **88-72-2 2-nitrotoluene**
    - BEI 1.5 % of hemoglobin
    - Medium: blood
    - Time: during or end of shift
    - Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

- **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

· **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 cannot 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:**
  Safety glasses

  Tightly sealed goggles

---

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

  · **General Information**

    · **Appearance:**
      - Form: Fluid
      - Color: Colorless
      - Odor: Like chlorine
      - Odor threshold: Not determined.

    · **pH-value:**
      Not determined.

    · **Change in condition**
      - Melting point/Melting range: -95.1 °C (-139.2 °F)
      - Boiling point/Boiling range: 40 °C (104 °F)

    · **Flash point:**
      Not applicable.

    · **Flammability (solid, gaseous):**
      Not applicable.

    · **Ignition temperature:**
      605 °C (1,121 °F)

    · **Decomposition temperature:**
      Not determined.

    · **Auto igniting:**
      Product is not selfigniting.

    · **Danger of explosion:**
      Product does not present an explosion hazard.

    · **Explosion limits:**
      - Lower: 13 Vol %
      - Upper: 22 Vol %
Trade name: Custom Standard

- Vapor pressure at 20 °C (68 °F): 360 hPa (270 mm Hg)
- Density at 20 °C (68 °F): 1.30095 g/cm³ (10.85643 lbs/gal)
- Relative density
- Vapor density
- Evaporation rate
- Solubility in / Miscibility with Water at 20 °C (68 °F): 20 g/l
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic at 20 °C (68 °F): 0.43 mPas
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 97.9%
  - VOC content: 0.00%
  - 0.0 g/l / 0.00 lb/gl
- Solids content: 1.7%
- 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)
    - Oral LD50 1,024 mg/kg
    - Dermal LD50 >845 mg/kg
    - Inhalative LC50/4 h 34.2 mg/L
    75-09-2 dichloromethane
    - Oral LD50 1,600 mg/kg (rat)
    - Dermal LD50 >2,000 mg/kg (rat)
    - Inhalative LC50/4 h 88 mg/L (rat)
    121-14-2 2,4-dinitrotoluene
    - Oral LD50 268 mg/kg (rat)
### 606-20-2 2,6-dinitrotoluene

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>177 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**98-95-3 nitrobenzene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>390 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>2,100 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>556 mg/L (rat)</td>
</tr>
</tbody>
</table>

**82-68-8 quinotone (ISO)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>1,100 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**100-00-5 1-chloro-4-nitrobenzene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>420 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>16,000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**121-73-3 1-chloro-3-nitrobenzene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>420 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**97-00-7 1-chloro-2,4-dinitrotoluene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>640 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>130 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

**99-65-0 1,3-dinitrotoluene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>83 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**88-72-2 2-nitrotoluene**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>891 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
  - Sensitization possible through inhalation.
  - Sensitization possible through skin contact.
- **Additional toxicological information:**
  - The product shows the following dangers according to internally approved calculation methods for preparations:
    - Toxic
    - Harmful
    - Irritant
  - The product can cause inheritable damage.

- **Carcinogenic categories**

<table>
<thead>
<tr>
<th>Code</th>
<th>Chemical</th>
<th>ICSC</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>2A</td>
</tr>
<tr>
<td>121-14-2</td>
<td>2,4-dinitrotoluene</td>
<td>2B</td>
</tr>
<tr>
<td>606-20-2</td>
<td>2,6-dinitrotoluene</td>
<td>2B</td>
</tr>
<tr>
<td>98-95-3</td>
<td>nitrobenzene</td>
<td>2B</td>
</tr>
<tr>
<td>82-68-8</td>
<td>quinotone (ISO)</td>
<td>3</td>
</tr>
<tr>
<td>99-08-1</td>
<td>3-nitrotoluene</td>
<td>3</td>
</tr>
<tr>
<td>99-99-0</td>
<td>4-nitrotoluene</td>
<td>3</td>
</tr>
<tr>
<td>100-00-5</td>
<td>1-chloro-4-nitrobenzene</td>
<td>3</td>
</tr>
<tr>
<td>88-73-3</td>
<td>1-chloro-2-nitrobenzene</td>
<td>3</td>
</tr>
<tr>
<td>121-73-3</td>
<td>1-chloro-3-nitrobenzene</td>
<td>3</td>
</tr>
<tr>
<td>88-72-2</td>
<td>2-nitrotoluene</td>
<td>2A</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to OSHA HCS

Trade name: Custom Standard

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- 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: Not applicable.
  - 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: UN1593
- UN proper shipping name
  - DOT: Dichloromethane
  - IMDG, IATA: DICHLOROMETHANE
### Transport hazard class(es)
- **DOT**
  - Class: 6.1 Toxic substances
  - Label: 6.1

### IMDG, IATA
- **Class**: 6.1 Toxic substances
- **Label**: 6.1

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

### Environmental hazards:
- Not applicable.

### Special precautions for user
- **Warning**: Toxic substances
- **Danger code (Kemler)**: 60
- **EMS Number**: F-A,S-A
- **Segregation groups**: Liquid halogenated hydrocarbons
- **Stowage Category**: A

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

### Transport/Additional information:
- **DOT**
  - **Quantity limitations**
    - On passenger aircraft/rail: 60 L
    - On cargo aircraft only: 220 L

### 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

### UN "Model Regulation"
- UN 1593 DICHLOROMETHANE, 6.1, III

### 15 Regulatory information
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - **Section 355 (extremely hazardous substances)**:
    - 98-95-3 nitrobenzene
  - **Section 313 (Specific toxic chemical listings)**:
    - 75-09-2 dichloromethane
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-14-2</td>
<td>2,4-dinitrotoluene</td>
</tr>
<tr>
<td>606-20-2</td>
<td>2,6-dinitrotoluene</td>
</tr>
<tr>
<td>98-95-3</td>
<td>nitrobenzene</td>
</tr>
<tr>
<td>82-68-8</td>
<td>quintozene (ISO)</td>
</tr>
<tr>
<td>528-29-0</td>
<td>1,2-dinitrobenzene</td>
</tr>
<tr>
<td>99-65-0</td>
<td>1,3-dinitrobenzene</td>
</tr>
<tr>
<td>88-72-2</td>
<td>2-nitrotoluene</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>75-09-2</td>
<td>dichloromethane</td>
</tr>
<tr>
<td>121-14-2</td>
<td>2,4-dinitrotoluene</td>
</tr>
<tr>
<td>606-20-2</td>
<td>2,6-dinitrotoluene</td>
</tr>
<tr>
<td>98-95-3</td>
<td>nitrobenzene</td>
</tr>
<tr>
<td>82-68-8</td>
<td>quintozene (ISO)</td>
</tr>
<tr>
<td>99-08-1</td>
<td>3-nitrotoluene</td>
</tr>
<tr>
<td>99-99-0</td>
<td>4-nitrotoluene</td>
</tr>
<tr>
<td>100-00-5</td>
<td>1-chloro-4-nitrobenzene</td>
</tr>
<tr>
<td>88-73-3</td>
<td>1-chloro-2-nitrobenzene</td>
</tr>
<tr>
<td>121-73-3</td>
<td>1-chloro-3-nitrobenzene</td>
</tr>
<tr>
<td>97-00-7</td>
<td>1-chloro-2,4-dinitrobenzene</td>
</tr>
<tr>
<td>89-59-8</td>
<td>4-chloro-2-nitrotoluene</td>
</tr>
<tr>
<td>99-65-0</td>
<td>1,3-dinitrobenzene</td>
</tr>
<tr>
<td>88-72-2</td>
<td>2-nitrotoluene</td>
</tr>
</tbody>
</table>

**TSCA new (21st Century Act) (Substances not listed):**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-68-8</td>
<td>quintozene (ISO)</td>
</tr>
<tr>
<td>100-00-5</td>
<td>1-chloro-4-nitrobenzene</td>
</tr>
</tbody>
</table>

**Proposition 65**

- **Chemicals known to cause cancer:**
  
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
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<tr>
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<td>2,4-dinitrotoluene</td>
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<td>nitrobenzene</td>
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<td>1-chloro-4-nitrobenzene</td>
</tr>
<tr>
<td>88-72-2</td>
<td>2-nitrotoluene</td>
</tr>
</tbody>
</table>

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

- **Chemicals known to cause reproductive toxicity for males:**
  
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-14-2</td>
<td>2,4-dinitrotoluene</td>
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</tr>
<tr>
<td>99-65-0</td>
<td>1,3-dinitrobenzene</td>
</tr>
</tbody>
</table>

- **Chemicals known to cause developmental toxicity:**
  None of the ingredients is listed.
Trade name: Custom Standard

- Carcinogenic categories

  - EPA (Environmental Protection Agency)
    - 75-09-2 dichloromethane
    - 98-95-3 nitrobenzene
    - 528-29-0 1,2-dinitrobenzene
    - 99-65-0 1,3-dinitrobenzene

  - TLV (Threshold Limit Value established by ACGIH)
    - 75-09-2 dichloromethane
    - 98-95-3 nitrobenzene
    - 82-68-8 quintozene (ISO)
    - 100-00-5 1-chloro-4-nitrobenzene

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    - 75-09-2 dichloromethane
    - 121-14-2 2,4-dinitrotoluene
    - 100-00-5 1-chloro-4-nitrobenzene

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

- Hazard pictograms

  - GHS06
  - GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  - dichloromethane
  - 1,2-dinitrobenzene
  - nitrobenzene
  - 2-nitrotoluene
  - quintozene (ISO)

- Hazard statements
  Harmful if swallowed.
  Toxic in contact with skin.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  May cause an allergic skin reaction.
  May cause genetic defects.
  May cause cancer.
  May damage fertility or the unborn child.

- Precautionary statements
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Contaminated work clothing must not be allowed out of the workplace.
  Wear protective gloves/protective clothing/eye protection/face protection.
  [In case of inadequate ventilation] wear respiratory protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If inhaled: If breathing is difficult, 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.
Specific treatment (see on this label).
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Take off immediately all contaminated clothing and wash it before reuse.
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.

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 04/11/2018 / -
- 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)
  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
  Acute Tox. 4: Acute toxicity – Category 4
  Acute Tox. 3: Acute toxicity – Category 3
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Resp. Sens. 1: Respiratory sensitisation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1
  Mut. 1B: Germ cell mutagenicity – Category 1B
  Carc. 1B: Carcinogenicity – Category 1B
  Repr. 1: Reproductive toxicity – Category 1