1 Identification

- Product identifier
- Trade name: Custom Standard
- Part number: ICUS-7247
- Application of the substance / the mixture: Reagents and Standards for Analytical Chemical Laboratory Use
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Agilent Technologies, Inc.
    5301 Stevens Creek Blvd.
    Santa Clara, CA 95051 USA
  - Information department:
    Telephone: 800-227-9770
    e-mail: pdl-msds_author@agilent.com
  - Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS05 Corrosion
    Eye Dam. 1 H318 Causes serious eye damage.
  - GHS07
    Skin Irrit. 2 H315 Causes skin irritation.

- Label elements
- GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  - GHS05

- Signal word: Danger
- Hazard-determining components of labeling:
  - nitric acid
- Hazard statements
  - Causes skin irritation.
  - Causes serious eye damage.
- Precautionary statements
  - If medical advice is needed, have product container or label at hand.
  - Keep out of reach of children.
  - Read label before use.
  - Wash thoroughly after handling.
  - Wear protective gloves / eye protection / face protection.
  - If on skin: Wash with plenty of water.

(Contd. on page 2)
Trade name: Custom Standard

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

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

- 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>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
<td>4.95%</td>
</tr>
<tr>
<td>87-69-4 (+)-tartaric acid</td>
<td>2.0%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- **Description of first aid measures**
  - **General information:** Immediately remove any clothing soiled by the product.
  - **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.
  - **After eye contact:** Rinse opened eye for several minutes under running water. Then 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:** Use fire fighting measures that suit the environment.
Safety Data Sheet
acc. to OSHA HCS

Trade name: Custom Standard

- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters:
- Protective equipment: No special measures required.

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).
  Use neutralizing agent.
  Dispose contaminated material as waste according to item 13.

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>7697-37-2 nitric acid</td>
<td>0.16 ppm</td>
</tr>
<tr>
<td>87-69-4 (+)-tartaric acid</td>
<td>1.6 mg/m³</td>
</tr>
<tr>
<td>7664-39-3 hydrogen fluoride</td>
<td>1.0 ppm</td>
</tr>
<tr>
<td>10043-35-3 boric acid</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>10042-76-9 strontium nitrate</td>
<td>5.7 mg/m³</td>
</tr>
<tr>
<td>10196-18-6 zinc(II) nitrate hexahydrate</td>
<td>27 mg/m³</td>
</tr>
<tr>
<td>10022-31-8 barium nitrate</td>
<td>2.9 mg/m³</td>
</tr>
<tr>
<td>7784-27-2 aluminium nitrate</td>
<td>83 mg/m³</td>
</tr>
<tr>
<td>7782-61-8 iron (III) nitrate nonahydrate</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>7446-08-4 selenium dioxide</td>
<td>0.84 mg/m³</td>
</tr>
<tr>
<td>7803-55-6 ammonium trioxovanadate</td>
<td>0.01 mg/m³</td>
</tr>
<tr>
<td>10377-66-9 manganese dinitrate</td>
<td>9.8 mg/m³</td>
</tr>
<tr>
<td>13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>1327-53-3 diarsenic trioxide</td>
<td>0.27 mg/m³</td>
</tr>
<tr>
<td>10099-74-8 lead dinitrate</td>
<td>0.24 mg/m³</td>
</tr>
<tr>
<td>1344-57-6 Uranium oxide (UO2)</td>
<td>0.68 mg/m³</td>
</tr>
<tr>
<td>1313-27-5 molybdenum trioxide</td>
<td>2.3 mg/m³</td>
</tr>
<tr>
<td>7440-36-0 antimony</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>10102-45-1 thallium nitrate</td>
<td>0.078 mg/m³</td>
</tr>
<tr>
<td>10022-68-1 Nitric acid, cadmium salt, tetrahydrate</td>
<td>0.27 mg/m³</td>
</tr>
</tbody>
</table>

- PAC-2:

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
<td>24 ppm</td>
</tr>
<tr>
<td>87-69-4 (+)-tartaric acid</td>
<td>17 mg/m³</td>
</tr>
<tr>
<td>7664-39-3 hydrogen fluoride</td>
<td>24 ppm</td>
</tr>
<tr>
<td>10043-35-3 boric acid</td>
<td>23 mg/m³</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
### Trade name: Custom Standard

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>10042-76-9</td>
<td>strontium nitrate</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>10196-18-6</td>
<td>zinc(II) nitrate hexahydrate</td>
<td>300 mg/m³</td>
</tr>
<tr>
<td>10022-31-8</td>
<td>barium nitrate</td>
<td>350 mg/m³</td>
</tr>
<tr>
<td>7784-27-2</td>
<td>aluminium nitrate</td>
<td>920 mg/m³</td>
</tr>
<tr>
<td>7782-61-8</td>
<td>iron (III) nitrate nonahydrate</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td>7446-08-4</td>
<td>selenium dioxide</td>
<td>1.6 mg/m³</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>ammonium trioxovanadate</td>
<td>0.11 mg/m³</td>
</tr>
<tr>
<td>10377-66-9</td>
<td>manganese dinitrate</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td>13478-00-7</td>
<td>Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>53 mg/m³</td>
</tr>
<tr>
<td>1327-53-3</td>
<td>diarsenic trioxide</td>
<td>3.0 mg/m³</td>
</tr>
<tr>
<td>10099-74-8</td>
<td>lead dinitrate</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td>1344-57-6</td>
<td>Uranium oxide (UO2)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>1313-27-5</td>
<td>molybdenum trioxide</td>
<td>43 mg/m³</td>
</tr>
<tr>
<td>7440-36-0</td>
<td>antimony</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td>10102-45-1</td>
<td>thallium nitrate</td>
<td>4.3 mg/m³</td>
</tr>
<tr>
<td>10022-68-1</td>
<td>Nitric acid, cadmium salt, tetrahydrate</td>
<td>2.1 mg/m³</td>
</tr>
</tbody>
</table>

#### PAC-3:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
<td>92 ppm</td>
</tr>
<tr>
<td>87-69-4</td>
<td>(+)-tartaric acid</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>7664-39-3</td>
<td>hydrogen fluoride</td>
<td>44 ppm</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>boric acid</td>
<td>830 mg/m³</td>
</tr>
<tr>
<td>10042-76-9</td>
<td>strontium nitrate</td>
<td>370 mg/m³</td>
</tr>
<tr>
<td>10196-18-6</td>
<td>zinc(II) nitrate hexahydrate</td>
<td>1,800 mg/m³</td>
</tr>
<tr>
<td>10022-31-8</td>
<td>barium nitrate</td>
<td>2,100 mg/m³</td>
</tr>
<tr>
<td>7784-27-2</td>
<td>aluminium nitrate</td>
<td>5,500 mg/m³</td>
</tr>
<tr>
<td>7782-61-8</td>
<td>iron (III) nitrate nonahydrate</td>
<td>640 mg/m³</td>
</tr>
<tr>
<td>7446-08-4</td>
<td>selenium dioxide</td>
<td>9.5 mg/m³</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>ammonium trioxovanadate</td>
<td>80 mg/m³</td>
</tr>
<tr>
<td>10377-66-9</td>
<td>manganese dinitrate</td>
<td>96 mg/m³</td>
</tr>
<tr>
<td>13478-00-7</td>
<td>Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>320 mg/m³</td>
</tr>
<tr>
<td>1327-53-3</td>
<td>diarsenic trioxide</td>
<td>9.1 mg/m³</td>
</tr>
<tr>
<td>10099-74-8</td>
<td>lead dinitrate</td>
<td>1,100 mg/m³</td>
</tr>
<tr>
<td>1344-57-6</td>
<td>Uranium oxide (UO2)</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>1313-27-5</td>
<td>molybdenum trioxide</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>7440-36-0</td>
<td>antimony</td>
<td>80 mg/m³</td>
</tr>
<tr>
<td>10102-45-1</td>
<td>thallium nitrate</td>
<td>26 mg/m³</td>
</tr>
<tr>
<td>10022-68-1</td>
<td>Nitric acid, cadmium salt, tetrahydrate</td>
<td>13 mg/m³</td>
</tr>
</tbody>
</table>
7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** No special precautions are necessary if used correctly.
  - **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:**

<table>
<thead>
<tr>
<th>7697-37-2 nitric acid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong> Long-term value: 5 mg/m³, 2 ppm</td>
</tr>
<tr>
<td><strong>REL</strong> Short-term value: 10 mg/m³, 4 ppm</td>
</tr>
<tr>
<td>Long-term value: 5 mg/m³, 2 ppm</td>
</tr>
<tr>
<td><strong>TLV</strong> Short-term value: 10 mg/m³, 4 ppm</td>
</tr>
<tr>
<td>Long-term value: 5.2 mg/m³, 2 ppm</td>
</tr>
</tbody>
</table>

- **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.
  Avoid contact with the skin.
  Avoid contact with the eyes and skin.
  - **Breathing equipment:**
  When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
  Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
  - **Protection of hands:**
  Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
  - **Material of gloves**
  For normal use: nitrile rubber, 11-13 mil thickness
  For direct contact with the chemical: butyl rubber, 12-15 mil thickness
Trade name: Custom Standard

- **Penetration time of glove material**
  - For normal use: nitrile rubber: 1 hour
  - For direct contact with the chemical: butyl rubber: >4 hours

- **Eye protection:**
  Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Fluid
    - **Form:** Fluid
    - **Color:** According to product specification
    - **Odor:** Characteristic
    - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** 100 °C (212 °F)

- **Flash point:** Not applicable.

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

- **Decomposition temperature:** Not determined.

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

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

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

- **Density:** Not determined.

- **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:** Not determined.
Safety Data Sheet
acc. to OSHA HCS

Printing date 11/28/2018
Version Number 2
Reviewed on 11/28/2018

Trade name: Custom Standard

- Solvent content:
  Water: 92.9 %
  VOC content: 0.00 %
  0.0 g/l / 0.00 lb/gal

- Solids content: 0.0 %

- Other information
  No further relevant information available.

10 Stability and reactivity

- Reactivity
  No further relevant information available.

- Chemical stability
  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                  | 1,276,000 mg/kg (rat) |
    | Dermal LD50                | 5,000 mg/kg           |
    | Inhalative LC50/4 h        | 365 mg/L              |

    7697-37-2 nitric acid
    Inhalative LC50/4 h 67 mg/L (rat)

    7664-39-3 hydrogen fluoride
    Oral LD50 1,276 mg/kg (rat)

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.

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

- Carcinogenic categories

  | IARC (International Agency for Research on Cancer) |
  |-----------------|-----------|
  | 7446-08-4 selenium dioxide | 3 |
  | 13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate | 1 |
  | 1327-53-3 diarsenic trioxide | 1 |
  | 10099-74-8 lead dinitrate | 2A |

(Contd. on page 8)
Trade name: Custom Standard

10022-68-1 Nitric acid, cadmium salt, tetrahydrate

- NTP (National Toxicology Program)
  - 13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate K
  - 1327-53-3 diarsenic trioxide K
  - 10099-74-8 lead dinitrate R
  - 10022-68-1 Nitric acid, cadmium salt, tetrahydrate K

- 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.
  - 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 1 (Self-assessment): slightly hazardous for water
      Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
      Must not reach bodies of water or drainage ditch undiluted or unneutralized.
    - 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: UN3264

- UN proper shipping name
  - DOT: Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
  - IMDG, IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
### Transport hazard class(es)

- **DOT**

#### IMDG, IATA

- **Class**: 8 Corrosive substances
- **Label**: 8

#### Packing group

- **DOT, IMDG, IATA**: III

#### Environmental hazards:

Not applicable.

#### Special precautions for user

- **Warning**: Corrosive substances
- **Danger code (Kemler)**: 80
- **EMS Number**: F-A,S-B
- **Segregation groups**: Acids
- **Stowage Category**: B
- **Stowage Code**: SW2 Clear of living quarters.

#### 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: 5 L
    - On cargo aircraft only: 60 L

- **IMDG**
  - **Limited quantities (LQ)**: 5L
  - **Exception quantities (EQ)**
    - Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation"**:
  - UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

(Contd. on page 10)
15 Regulatory information

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

**Section 355 (extremely hazardous substances):**
- 7697-37-2 nitric acid
- 7664-39-3 hydrogen fluoride
- 1327-53-3 diarsenic trioxide

**Section 313 (Specific toxic chemical listings):**
- 7697-37-2 nitric acid
- 7664-39-3 hydrogen fluoride
- 10042-76-9 strontium nitrate
- 10196-18-6 zinc(II) nitrate hexahydrate
- 10022-31-8 barium nitrate
- 7784-27-2 aluminium nitrate
- 7782-61-8 iron (III) nitrate nonahydrate
- 7446-08-4 selenium dioxide
- 7803-55-6 ammonium trioxovanadate
- 7789-02-8 chromium (III) nitrate nonahydrate
- 10377-66-9 manganese dinitrate
- 13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate
- 10031-43-3 cupric nitrate
- 1327-53-3 diarsenic trioxide
- 10099-74-8 lead dinitrate
- 1313-27-5 molybdenum trioxide
- 7440-36-0 antimony
- 10102-45-1 thallium nitrate
- 10022-68-1 Nitric acid, cadmium salt, tetrahydrate

**TSCA (Toxic Substances Control Act):**
- 7697-37-2 nitric acid
- 87-69-4 (+)-tartaric acid
- 7664-39-3 hydrogen fluoride
- 10043-35-3 boric acid
- 10042-76-9 strontium nitrate
- 10022-31-8 barium nitrate
- 7446-08-4 selenium dioxide
- 7803-55-6 ammonium trioxovanadate
- 10377-66-9 manganese dinitrate
- 1327-53-3 diarsenic trioxide
- 10099-74-8 lead dinitrate
- 1344-57-6 Uranium oxide (UO2)
Trade name: Custom Standard

48.0

1313-27-5 molybdenum trioxide
7440-36-0 antimony
10102-45-1 thallium nitrate
7732-18-5 water

· Proposition 65

· Chemicals known to cause cancer:
  13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate
  1327-53-3 diarsenic trioxide
  10099-74-8 lead dinitrate
  10022-68-1 Nitric acid, cadmium salt, tetrahydrate

· 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:
  1327-53-3 diarsenic trioxide

· Carcinogenic categories

· EPA (Environmental Protection Agency)
  10043-35-3 boric acid I (oral)
  10022-31-8 barium nitrate D, CBD(inh), NL(oral)
  7446-08-4 selenium dioxide D
  10377-66-9 manganese dinitrate D
  1327-53-3 diarsenic trioxide A
  10099-74-8 lead dinitrate B2
  10102-45-1 thallium nitrate II

· TLV (Threshold Limit Value established by ACGIH)
  10043-35-3 boric acid A4
  10022-31-8 barium nitrate A4
  1327-53-3 diarsenic trioxide A1
  10099-74-8 lead dinitrate A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

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

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Date of preparation / last revision 11/28/2018 / 1

· 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
**Trade name:** Custom Standard

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<tr>
<th>DOT: US Department of Transportation</th>
<th>ACGIH: American Conference of Governmental Industrial Hygienists</th>
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<tr>
<td>IATA: International Air Transport Association</td>
<td>EINECS: European Inventory of Existing Commercial Chemical Substances</td>
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<td>ACILCS: European List of Notified Chemical Substances</td>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
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<td>NFPA: National Fire Protection Association (USA)</td>
<td>VOC: Volatile Organic Compounds (USA, EU)</td>
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<td>HMIS: Hazardous Materials Identification System (USA)</td>
<td>LC50: Lethal concentration, 50 percent</td>
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<td>PBT: Persistent, Bioaccumulative and Toxic</td>
<td>LD50: Lethal dose, 50 percent</td>
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<td>vPvB: very Persistent and very Bioaccumulative</td>
<td>PEL: Permissible Exposure Limit</td>
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<td>NIOSH: National Institute for Occupational Safety</td>
<td>REL: Recommended Exposure Limit</td>
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<td>OSHA: Occupational Safety &amp; Health</td>
<td>Skin Irrit. 2: Skin corrosion/irritation – Category 2</td>
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<td>TLV: Threshold Limit Value</td>
<td>Eye Dam. 1: Serious eye damage/eye irritation – Category 1</td>
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