1 Identification

- Product identifier
- Trade name: ICP-MS-TS-20
- Article number: ICP-MS-TS-20

Details of the supplier of the safety data sheet
- Manufacturer/Supplier: High-Purity Standards
  7221 Investment Drive, North Charleston, SC 29418 United States
  Telephone: +1-843-767-7900
  Fax: +1-843-767-7906
  highpuritystandards.com
  Email: info@highpuritystandards.com

- Information department: Product safety department
- Emergency telephone number: INFOTRAC
  Emergency telephone numbers 1-800-535-5053
  Other emergency telephone numbers 1-352-323-3500

2 Hazard(s) identification

- Classification of the substance or mixture
  GHS05 Corrosion
  Met. Corr. 1  H290  May be corrosive to metals.
  Skin Corr. 1A  H314  Causes severe skin burns and eye damage.
  Eye Dam. 1  H318  Causes serious eye damage.

- 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
  H290 May be corrosive to metals.
  H314 Causes severe skin burns and eye damage.

- Precautionary statements
  Keep only in original container.
  Do not breathe dusts or mists.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Rinse mouth. Do NOT induce vomiting.
Trade name: ICP-MS-TS-20

50.0.1 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.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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>Identification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>nitric acid</td>
<td>7697-37-2</td>
<td>2.0%</td>
</tr>
<tr>
<td>hydrochloric acid</td>
<td>7647-01-0</td>
<td>0.3%</td>
</tr>
<tr>
<td>water, distilled, conductivity or of similar purity</td>
<td>7732-18-5</td>
<td>97.5%</td>
</tr>
<tr>
<td>barium carbonate</td>
<td>513-77-9</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>bismuth</td>
<td>7440-69-9</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>cerium</td>
<td>7440-45-1</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>cobalt</td>
<td>7440-48-4</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>indium</td>
<td>7440-74-6</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>lithium carbonate</td>
<td>554-13-2</td>
<td>0.0000001%</td>
</tr>
<tr>
<td>lead</td>
<td>7439-92-1</td>
<td>0.0000001%</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:** Drink copious amounts of water and provide fresh air. 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**
  During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**
  - Protective equipment: Mouth 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.
  - Environmental precautions: No special measures required.

- **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.
  - 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:**
  - 7697-37-2 nitric acid
    - 0.16 ppm
  - 7647-01-0 hydrochloric acid
    - 1.8 ppm
  - 10102-06-4 Uranyl nitrate
    - 0.99 mg/m³
  - 513-77-9 barium carbonate
    - 2.2 mg/m³
  - 554-13-2 lithium carbonate
    - 3.1 mg/m³
### Trade name: ICP-MS-TS-20

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1</td>
<td>lead</td>
<td>0.15 mg/m³</td>
</tr>
<tr>
<td>7440-45-1</td>
<td>cerium</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>cobalt</td>
<td>0.18 mg/m³</td>
</tr>
<tr>
<td>7440-69-9</td>
<td>bismuth</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>7440-74-6</td>
<td>indium</td>
<td>0.3 mg/m³</td>
</tr>
<tr>
<td>PAC-2:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
<td>24 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td>hydrochloric acid</td>
<td>22 ppm</td>
</tr>
<tr>
<td>10102-06-4</td>
<td>Uranyl nitrate</td>
<td>5.5 mg/m³</td>
</tr>
<tr>
<td>513-77-9</td>
<td>barium carbonate</td>
<td>270 mg/m³</td>
</tr>
<tr>
<td>554-13-2</td>
<td>lithium carbonate</td>
<td>34 mg/m³</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>lead</td>
<td>120 mg/m³</td>
</tr>
<tr>
<td>7440-45-1</td>
<td>cerium</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>cobalt</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>7440-69-9</td>
<td>bismuth</td>
<td>170 mg/m³</td>
</tr>
<tr>
<td>7440-74-6</td>
<td>indium</td>
<td>3.3 mg/m³</td>
</tr>
<tr>
<td>PAC-3:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
<td>92 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td>hydrochloric acid</td>
<td>100 ppm</td>
</tr>
<tr>
<td>10102-06-4</td>
<td>Uranyl nitrate</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td>513-77-9</td>
<td>barium carbonate</td>
<td>1,600 mg/m³</td>
</tr>
<tr>
<td>554-13-2</td>
<td>lithium carbonate</td>
<td>210 mg/m³</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>lead</td>
<td>700 mg/m³</td>
</tr>
<tr>
<td>7440-45-1</td>
<td>cerium</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>cobalt</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>7440-69-9</td>
<td>bismuth</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>7440-74-6</td>
<td>indium</td>
<td>20 mg/m³</td>
</tr>
</tbody>
</table>

### 7 Handling and storage

**Handling:**

- **Precautions for safe handling**
  
  Ensure good ventilation/exhaustion at the workplace.
  
  Prevent formation of aerosols.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

**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.
Safety Data Sheet
acc. to OSHA HCS

Trade name: ICP-MS-TS-20

8 Exposure controls/personal protection

· Specific end use(s) No further relevant information available.

<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: No further data; see item 7.

· Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
</tr>
<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 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.
**9 Physical and chemical properties**

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>colorless</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>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>100 °C (212 °F)</td>
</tr>
<tr>
<td>Flash point:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure at 20 °C (68 °F):</td>
<td>23 hPa (17.3 mm Hg)</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>1.01081 g/cm³ (8.43521 lbs/gal)</td>
</tr>
<tr>
<td>Bulk density:</td>
<td>1,011 kg/m³</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with</td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
Trade name: ICP-MS-TS-20

50.0.1 · Solvent content:
   Water: 97.5 %
   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
· 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:
     7647-01-0 hydrochloric acid
     Oral LD50 900 mg/kg (rabbit)

   · Primary irritant effect:
     · on the skin: Strong caustic effect on skin and mucous membranes.
     · on the eye: Strong caustic effect. 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: Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories
   · IARC (International Agency for Research on Cancer)
     7647-01-0 hydrochloric acid 3
     7439-92-1 lead 2B
     7440-48-4 cobalt 2B
   · NTP (National Toxicology Program)
     7439-92-1 lead R
     7440-48-4 cobalt R

(Contd. on page 8)
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:**
    - Not hazardous for water.
    - 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, ADR, IMDG, IATA** UN3264
- **UN proper shipping name**
  - **DOT**
    - Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
  - **ADR**
    - 3264 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

<table>
<thead>
<tr>
<th>Class</th>
<th>8 Corrosive substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>8</td>
</tr>
</tbody>
</table>

### ADR, IMDG, IATA

<table>
<thead>
<tr>
<th>Class</th>
<th>8 Corrosive substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>8</td>
</tr>
</tbody>
</table>

### Packing group

- DOT, ADR, 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: A
- Stowage Code: SW2 Clear of living quarters.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not applicable.

### Transport/Additional information:

#### DOT

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

#### ADR

- Excepted quantities (EQ): Code: E1
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 1000 ml

#### 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 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
    - 7647-01-0 hydrochloric acid
  - **Section 313 (Specific toxic chemical listings):**
    - 7697-37-2 nitric acid
    - 7647-01-0 hydrochloric acid
    - 513-77-9 barium carbonate
    - 554-13-2 lithium carbonate
    - 7439-92-1 lead
    - 7440-48-4 cobalt
  - **TSCA (Toxic Substances Control Act):**
    All components have the value ACTIVE.
  - **Hazardous Air Pollutants**
    - 7647-01-0 hydrochloric acid
    - 7439-92-1 lead
    - 7440-48-4 cobalt
  - **Proposition 65**
    - **Chemicals known to cause cancer:**
      - 7439-92-1 lead
      - 7440-48-4 cobalt
    - **Chemicals known to cause reproductive toxicity for females:**
      - 7439-92-1 lead
    - **Chemicals known to cause reproductive toxicity for males:**
      - 7439-92-1 lead
    - **Chemicals known to cause developmental toxicity:**
      - 554-13-2 lithium carbonate
      - 7439-92-1 lead
  - **Carcinogenic categories**
    - **EPA (Environmental Protection Agency)**
      - 513-77-9 barium carbonate
      - 7439-92-1 lead
      - D, CBD(inh), NL(oral)
      - B2
    - **TLV (Threshold Limit Value established by ACGIH)**
      - 7647-01-0 hydrochloric acid A4
      - 513-77-9 barium carbonate A4
      - 7439-92-1 lead A3
      - 7440-48-4 cobalt A3
Trade name: ICP-MS-TS-20

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

10102-06-4 Uranyl nitrate

- 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
  H290 May be corrosive to metals.
  H314 Causes severe skin burns and eye damage.
- Precautionary statements
  Keep only in original container.
  Do not breathe dusts or mists.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Rinse mouth. Do NOT induce vomiting.
  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.
  Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Wash contaminated clothing before reuse.
  Absorb spillage to prevent material damage.
  Store locked up.
  Store in corrosive resistant container with a resistant inner liner.
  Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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: Environment protection department.
- Contact:
  High-Purity Standards
  Tel: 843-767-7900
  Fax: 843-767-7906
- Date of preparation / last revision 12/04/2019 / -
- 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

(Contd. on page 12)
### Trade name: ICP-MS-TS-20

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

(Contd. of page 11)