SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: HYDROSHINE WS 6001
Material number: 021905AN0

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company: ECKART GmbH
Guentersthal 4
91235 Hartenstein

Telephone: +499152770
Telefax: +499152777008
E-mail address: msds.eckart@altana.com

Responsible/issuing person

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free): 1-800-5355-053

SECTION 2: Hazards identification

GHS Classification:

- Flammable liquids, Category 2, H225
- Acute toxicity, Category 4, Oral, H302
- Acute toxicity, Category 5, Dermal, H313
- Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 2A, H319
Specific target organ toxicity - single exposure, Category 3,
Central nervous system, H336

GHS-Labelling
Symbol(s) : ⚠️ ⚠️
Signal word : Danger
Hazard statements : H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H313: May be harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary statements : Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P312 Call a POISON CENTER/doctor if you feel unwell.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label
<table>
<thead>
<tr>
<th>Identification</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
</tr>
<tr>
<td>silicon dioxide</td>
<td>7631-86-9</td>
</tr>
</tbody>
</table>
### SECTION 3: Composition/information on ingredients

Substance No.

#### Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EINECS-No.</th>
<th>Classification and labelling</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0 200-661-7</td>
<td>Flam. Liq.;2;H225 Acute Tox.:5;H303 Acute Tox.:5;H313 Eye Irrit.:2A;H319 STOT SE:3;H336</td>
<td>50 - 100</td>
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<tr>
<td>2-butoxyethanol</td>
<td>111-76-2 203-905-0</td>
<td>Flam. Liq.;4;H227 Acute Tox.:4;H302 Acute Tox.:4;H312 Acute Tox.:4;H332 Skin Irrit.:2;H315 Eye Irrit.:2;H319</td>
<td>10 - 20</td>
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<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5 231-072-3</td>
<td>Flam. Sol.;1;H228</td>
<td>1 - 10</td>
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<tr>
<td>silicon dioxide</td>
<td>7631-86-9 231-545-4</td>
<td>Acute Tox.:5;H303</td>
<td>1 - 10</td>
</tr>
<tr>
<td>dimethoxydiphenylsilane</td>
<td>6843-66-9 229-929-1</td>
<td>Skin Irrit.:2;H315</td>
<td>1 - 10</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
- Move the victim to fresh air.
- Do not leave the victim unattended.
- Move out of dangerous area.
- Show this safety data sheet to the doctor in attendance.

If inhaled:
- Consult a physician after significant exposure.
- If unconscious, place in recovery position and seek medical advice.

In case of skin contact:
- Wash off immediately with soap and plenty of water.
- If skin irritation persists, call a physician.
- If on skin, rinse well with water.
- If on clothes, remove clothes.

In case of eye contact:
- Immediately flush eye(s) with plenty of water.
- Immediately flush eye(s) with plenty of water.
- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.

If swallowed:
- Keep respiratory tract clear.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry sand, ABC powder, Foam

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive
concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush with water.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen). Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Further information on storage conditions: Protect from humidity and water.

Advice on common storage: Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)
**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Germany:**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>AGW</td>
<td>200 ppm</td>
<td>2006-01-01</td>
<td>DE TRGS 900</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500 mg/m³</td>
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<td></td>
</tr>
<tr>
<td>Peak-limit: excursion factor (category)</td>
<td></td>
<td>2;(II)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>TWA</td>
<td>20 ppm</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
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<tr>
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<td>98 mg/m³</td>
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<td></td>
</tr>
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<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>AGW</td>
<td>10 ppm</td>
<td>2012-01-12</td>
<td>DE TRGS 900</td>
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<td>49 mg/m³</td>
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<td>4;(II)</td>
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<td>Further information</td>
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<td>Skin absorption When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child</td>
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<tr>
<td>Further information</td>
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<td>Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).</td>
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<tr>
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<td>AGW (Alveolate fraction) 1,25 mg/m³ 2014-04-02 DE TRGS 900</td>
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<td>2;(II)</td>
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<tr>
<td>Further information</td>
<td>Commission for dangerous substances</td>
<td>Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).</td>
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<td>silicon dioxide 7631-86-9</td>
<td>AGW (Inhalable fraction) 4 mg/m³ 2011-04-12 DE TRGS 900</td>
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<td></td>
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<tr>
<td>silicon dioxide 7631-86-9</td>
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<td>Further information</td>
<td>Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child</td>
<td></td>
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</table>
### United States of America (USA):

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>200 ppm</td>
<td>2013-03-01</td>
<td></td>
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<td>propan-2-ol</td>
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<td>STEL</td>
<td>400 ppm</td>
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<tr>
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<td>TWA</td>
<td>400 ppm 980 mg/m³</td>
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<tr>
<td>propan-2-ol</td>
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<td>ST</td>
<td>500 ppm 1 225 mg/m³</td>
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<td>TWA</td>
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<tr>
<td>Substance</td>
<td>PEL/PEL (Respirable fraction)</td>
<td>TWA/PEL (Total)</td>
<td>TWA (Respirable fraction)</td>
<td>TWA (Total dust)</td>
<td>Date</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------</td>
<td>-----------------</td>
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</tr>
<tr>
<td>2-butoxyethanol (stabilised)</td>
<td>111-76-2  PEL</td>
<td>20 ppm 97 mg/m³</td>
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<td>aluminium powder (stabilised)</td>
<td>7429-90-5  TWA (total dust)</td>
<td>5 mg/m³</td>
<td>15 Million particles per cubic foot</td>
<td>2012-07-01</td>
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<td>7429-90-5  TWA (Respirable)</td>
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<td>2012-07-01</td>
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<tr>
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<td>7429-90-5  TWA (total)</td>
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<td>15 Million particles per cubic foot</td>
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<td>2005-09-01</td>
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<tr>
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<td>1989-01-19</td>
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<tr>
<td>Powder (stabilised)</td>
<td>(Respirable fraction)</td>
<td>TWA</td>
<td>Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>-----</td>
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</tr>
<tr>
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<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>2011-07-01</td>
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<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>2011-07-01</td>
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<td></td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
<td>TWA (Total dust)</td>
<td>15 mg/m³</td>
<td>1989-01-19</td>
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<tr>
<td>aluminium powder (stabilised)</td>
<td>TWA (respirable dust fraction)</td>
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<td>PEL</td>
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<td>2014-11-26</td>
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</tr>
<tr>
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<td>PEL</td>
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<td>silicon dioxide</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>2005-09-01</td>
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<td>silicon dioxide</td>
<td>TWA (Dust)</td>
<td>20 Million particles per cubic foot</td>
<td>2011-07-01</td>
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<td>silicon dioxide</td>
<td>TWA (Dust)</td>
<td>80 mg/m³ / %SiO₂</td>
<td>2011-07-01</td>
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8.2 Exposure controls

**Personal protective equipment**

- **Eye protection**: Goggles
  - Wear face-shield and protective suit for abnormal processing problems.

- **Hand protection**
  - **Material**: Solvent-resistant gloves (butyl-rubber)

- **Remarks**
  - Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
  - The exact break through time can be obtained from the protective glove producer and this has to be observed.
  - Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
  - Recommended preventive skin protection
  - Skin should be washed after contact.
  - The suitability for a specific workplace should be discussed.
with the producers of the protective gloves.

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

: Use suitable breathing protection if workplace concentration requires.

: In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

General advice

: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Water

: The product should not be allowed to enter drains, water courses or the soil.


SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
### Appearance
- liquid

### Colour
- silver

### Odour
- characteristic

### pH
- No data available

### Freezing point
- No data available

### Boiling point/boiling range
- 82 °C

### Flash point
- 13 °C

### Bulk density
- No data available

### Flammability (solid, gas)
- No data available

### Auto-flammability
- No data available

### Upper explosion limit
- No data available

### Lower explosion limit
- No data available

### Vapour pressure
- No data available

### Density
- 0.9 g/cm³

### Solubility(ies)
- Water solubility: insoluble
- Miscibility with water: immiscible
- Solubility in other solvents: No data available
- Partition coefficient: n-octanol/water: No data available
- Ignition temperature: No data available
- Thermal decomposition: No data available
- Viscosity, dynamic: No data available
- Viscosity, kinematic: No data available
- Flow time: No data available

### 9.2 Other information
SECTION 10: Stability and reactivity

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions: Contact with acids and alkalis may release hydrogen.
Stable under recommended storage conditions.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Conditions to avoid: Do not allow evaporation to dryness.
Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid: Acids
                 Bases
                 Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products: No data available

Other information: No data available
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

**Components:**

**propan-2-ol :**
Acute oral toxicity : LD50 Rat: > 2 000 mg/kg
Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

**2-butoxyethanol :**
Acute inhalation toxicity : > 3,1 mg/l
Exposure time: 1 h
Test atmosphere: vapour

**silicon dioxide :**
Acute oral toxicity : LD50 Rat: 5 000 mg/kg
Mouse: 15 000 mg/kg
Acute inhalation toxicity : Rat: 0,139 mg/l
Exposure time: 4 h
Acute dermal toxicity: LD50 Rabbit: > 5 000 mg/kg

Skin corrosion/irritation

Product
May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product
Eye irritation

Respiratory or skin sensitisation
No data available

Carcinogenicity
No data available

Toxicity to reproduction/fertility
No data available

Reprod.Tox./Development/Teratogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure
No data available
Aspiration toxicity
   No data available

Further information
   Product
   Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

   Components:
   silicon dioxide (7631-86-9) :
   Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 7 600 mg/l
   Toxicity to algae : (Chlorella pyrenoidosa (algae)): 440 mg/l
   Exposure time: 72 h

12.2 Persistence and degradability
   No data available

12.3 Bioaccumulative potential
   No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects

Product:
Additional ecological information: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number
14.2 Proper shipping name

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<tr>
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<th>TDG</th>
<th>CFR</th>
<th>IMDG</th>
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14.2 Proper shipping name

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14.3 Transport hazard class

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14.4 Packing group

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<td>Tunnel restriction code : (D/E)</td>
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14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
   No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-statements

H225: Highly flammable liquid and vapour.
H227: Combustible liquid.
H228: Flammable solid.
H302: Harmful if swallowed.
H303: May be harmful if swallowed.
H312: Harmful in contact with skin.
H313: May be harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.