SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Antivapor-D

1.2. Recommended use and restrictions on use

For use in hydrochloric acid pickling solutions

1.3. Supplier

SOPRIN S.r.l.
Via dell’Industria 106
31052 Maserada Sul Piave (TV) - Italy
T (+39) 0422 521025 - F (+39) 0422 521060
soprin@soprin.it (Alessandro Padovan)

1.4. Emergency telephone number

Emergency number : CHEMTREC 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-US/ CAN)
Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US/CAN labeling
No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US/CAN)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-CA)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid</td>
<td>(CAS No) 7647-01-0</td>
<td>&lt; 0.1</td>
<td>Met. Corr. 1, H290 Acute Tox. 3 (Inhalation), H331 HINOC 1, HINOC Skin Corr. 1, H314 Eye Dam. 1, H318</td>
<td>Met. Corr. 1, H290 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

First-aid measures after skin contact : Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

First-aid measures after ingestion : Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after inhalation : None anticipated under normal product handling conditions.
Symptoms/Injuries after skin contact : None anticipated under normal product handling conditions.
Symptoms/Injuries after eye contact : None anticipated under normal product handling conditions.
Symptoms/Injuries after ingestion : None anticipated under normal product handling conditions.
4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Carbon dioxide, foam, powder and water spray.

5.2. Special hazards arising from the substance or mixture
Fire hazard: None.
Explosion hazard: None known.

5.3. Advice for firefighters
Firefighting instructions: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Protection during firefighting: Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Stop the flow of material, if this is without risk.
Methods for cleaning up: Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Before handling the product, consult all the other sections of this safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Hydrochloric acid (7647-01-0)</th>
<th>USA - ACGIH</th>
<th>ACGIH Ceiling (ppm)</th>
<th>2 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA - OSHA</td>
<td>OSHA PEL (Ceiling) (mg/m³)</td>
<td>7 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>OSHA PEL (Ceiling) (ppm)</td>
<td>5 ppm</td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>PLAFOND (mg/m³)</td>
<td>7.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>PLAFOND (ppm)</td>
<td>5 ppm</td>
<td></td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL Ceiling (mg/m³)</td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL Ceiling (ppm)</td>
<td>2 ppm</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td>OEL Ceiling (ppm)</td>
<td>2 ppm</td>
<td></td>
</tr>
<tr>
<td>Manitoba</td>
<td>OEL Ceiling (ppm)</td>
<td>2 ppm</td>
<td></td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL Ceiling (mg/m³)</td>
<td>7.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>New Brunswick</td>
<td>OEL Ceiling (ppm)</td>
<td>5 ppm</td>
<td></td>
</tr>
<tr>
<td>New Foundland &amp; Labrador</td>
<td>OEL Ceiling (ppm)</td>
<td>2 ppm</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls: Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection: Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.

Eye protection: Wear protective airtight goggles.

Skin and body protection: Wear suitable working clothes.

Respiratory protection: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Brown.
Odour: Natural substances
Odour threshold: No data available
pH: > 2.1
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: < -5 °C
Boiling point: No data available
Flash point: > 100 °C
Self ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 1005 kg/m³
Solubility: Soluble in water
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None
10.5. Incompatible materials
Alkalis, organic substances, strong oxidants and metals.

10.6. Hazardous decomposition products
Hydrochloric acid fumes may develop above decomposition temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Hydrochloric acid (7647-01-0)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>238 - 277 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 5010 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>1.68 mg/l (Exposure time: 1 h)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: &gt; 2.1</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: &gt; 2.1</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
Aquatic acute : Not classified
Aquatic chronic : Not classified

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Ozone : Not classified

Hydrochloric acid (7647-01-0)

1990 Hazardous Air Pollutant (Clean Air Act) : Yes

SECTION 13: Disposal considerations

13.1. Disposal methods
Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

14.1. Basic shipping description
In accordance with TDG

TDG
Not regulated for transport

14.2. Transport information/DOT
Antivapor-D  
Safety Data Sheet

**DOT**  
Not regulated for transport

**14.3. Air and sea transport**

**IMDG**  
Not regulated for transport

**IATA**  
Not regulated for transport

**SECTION 15: Regulatory information**

**15.1. Canada National regulations**

**Hydrochloric acid (7647-01-0)**  
Listed on the Canadian DSL (Domestic Sustances List)

**15.2. US Federal regulations**

**Hydrogen chloride (7647-01-0)**  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on SARA Section 302 (Specific toxic chemical listings)  
Listed on SARA Section 313 (Specific toxic chemical listings)  
SARA Section 302 Threshold Planning Quantity (TPQ)  
500 (gas only)  
SARA Section 313 - Emission Reporting  
1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

**15.3. US State regulations**

**Hydrogen chloride (7647-01-0)**  
U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

**SECTION 16: Other information**

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.