SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product name: Legacy of Clean™ Metal Cleaner

Other means of identification

Product code: 116390, 112160

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended use: Paste cleaner for metals. Consumer use.

Uses advised against: Do not use on stainless steel appliances, highly polished, mirror-finished or simulated brass surfaces as permanent scratching can occur.

Details of the supplier of the safety data sheet

Product information

Amway Corp. (58C-2A)
7575 Fulton Street East
Ada, MI 49355
USA
Tel: 1-800-253-6500

E-mail address: sds@amway.com

Manufacturer

Access Business Group, LLC
7575 Fulton Street East
Ada, MI 49355
USA
Tel: 1-800-253-6500

Emergency telephone number

For Transportation
ChemTrec @ 1-800-424-9300

Emergencies:

Emergency Telephone Number: For Poisoning Emergencies call Amway's poison control service in the United States at 1-616-787-6307. This is a 24-hour number.

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral Category 4

Label elements
Warning

Hazard statements:
Harmful if swallowed

Precautionary Statements - Prevention
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
* Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (crystalline silica)</td>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>30-40</td>
<td>*</td>
</tr>
<tr>
<td>Kieselguhr, soda ash flux-calcined</td>
<td>Silica</td>
<td>68855-54-9</td>
<td>10-20</td>
<td>*</td>
</tr>
<tr>
<td>Calcium chloride</td>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-</td>
<td>Organic acid</td>
<td>77-92-9</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt</td>
<td>Sodium lauryl sulfate</td>
<td>151-21-3</td>
<td>1-5</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

First aid measures

Eye contact: Remove contact lenses. Rinse with gentle stream of water for 15 minutes, holding eyelids open. Get medical advice by calling a poison control center, doctor or hospital emergency room.

Skin contact: Rinse skin thoroughly with water.

Inhalation: Move to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE
by calling a poison control center, doctor or hospital emergency room.

**Ingestion:**
If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

**Protection of first-aiders:**
Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed**

**Symptoms:**
No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

**Suitable extinguishing media:**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:**
No information available.

**Specific hazards arising from the chemical**
No special exposure hazards are known.

**Special protective equipment for fire-fighters**
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:**
Wear appropriate personal protection equipment (respirator, gloves, goggles, and/or faceshield, boots, protective clothing).

**For emergency responders:**
Use personal protective equipment as required.

**Environmental precautions**
See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment:**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods for cleaning up:**
No special collection methods required. Dispose of in accordance with all national and local regulations.

### 7. HANDLING AND STORAGE
Precautions for safe handling

Advice on safe handling:
Avoid contact with eyes. Do not eat, drink or smoke when using this product.

General hygiene considerations:
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep out of the reach of children

Materials to avoid
Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

8. EXPOSURE CONTROLS/PERSOENAL PROTECTION

Control parameters

Exposure limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>ACGIH CEILING</th>
<th>ACGIH - Skin Absorption Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (crystalline silica)</td>
<td>0.025 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA</th>
<th>OSHA-Table Z-3 Mineral Dust</th>
<th>OSHA CEILING</th>
<th>OSHA - Skin Notations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (crystalline silica)</td>
<td>50 µg/m³ Respirable crystalline silica</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL):
No information available.

Predicted No Effect Concentration (PNEC):
No information available.

Appropriate engineering controls

Engineering measures:
Mechanical ventilation is not normally necessary when this product is used according to product label directions.

Individual protection measures, such as personal protective equipment

Eye/face protection: Follow label directions. No special technical protective measures are necessary. Avoid contact with eyes. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

Hand protection: Follow label directions. Skin protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.
Skin and body protection: Follow label directions. Skin and body protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

Respiratory protection: Follow label directions. Respiratory protective equipment is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

General industrial hygiene practice:
This product is sold as a consumer product. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste / Gel</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Paste</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Off-white</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td>@ 25 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH:</td>
<td>1.2 - 1.8</td>
<td>No information available  @ 25 °C</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability limit in air:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>1.20 - 1.43</td>
<td>@ 25 °C</td>
</tr>
<tr>
<td>Water solubility:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic viscosity:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Dynamic viscosity:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>VOC content (%):</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Density:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk density:</td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

No data available.
Chemical stability

Stability:
Stable under normal conditions.

Sensitivity to mechanical impact:
None.

Sensitivity to static discharge:
None.

Possibility of hazardous reactions

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

Conditions to avoid

Keep out of reach of children.

Incompatible materials:
Not determined.

Hazardous decomposition products

Not determined.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Aggravated medical conditions: Exposure to this product may aggravate pre-existing skin, eye, and respiratory disorders.

Principle routes of exposure:

Inhalation: This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. See additional information below.

Eye contact: Avoid contact with eyes. Mild Irritant.

Skin contact: This product is not a skin irritant and did not cause skin allergy in predictive patch tests.

Ingestion: Ingestion of this product can cause irritation of the mouth and throat, upset stomach, nausea, vomiting and diarrhea.

Further information: Inhalation of crystalline silica dusts can cause lung damage (silicosis). Crystalline silica is an IARC Class 2A carcinogen (probably carcinogenic to humans). Inhalation overexposure to amorphous silica dust may cause changes in the lung (visible only by x-ray) without disability.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (crystalline silica) 14808-60-7</td>
<td>= 500 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium chloride 10043-52-4</td>
<td>= 1000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>= 3 g/kg (Rat) = 3000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Sulfuric acid monododecyl ester sodium salt 151-21-3

= 1288 mg/kg (Rat)  
= 200 mg/kg (Rabbit)  
> 3900 mg/m³ (Rat) 1 h

### Information on toxicological effects

**Symptoms:** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation:** Patch test on human volunteers did not demonstrate irritating properties.

**Serious eye damage/eye irritation:** Mild eye irritation. Data obtained on this product or a similar product.

**Sensitization:** Patch test on human volunteers did not demonstrate sensitization properties.

**Germ cell mutagenicity:** None known.

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC (International Agency for Research on Cancer)</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (crystalline silica) 14808-60-7</td>
<td>A2 - Suspected Human Carcinogen</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Kieselguhr, soda ash flux-calcined 68855-54-9</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Reproductive toxicity:** This product does not contain any known or suspected reproductive hazards.

**STOT - single exposure:** None under normal use conditions.

**STOT - repeated exposure:** None under normal use conditions.

**Aspiration hazard:** No hazard from product as supplied.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride 10043-52-4</td>
<td>-</td>
<td>10650: 96 h <em>Lepomis macrochirus</em> mg/L LC50 static</td>
<td>2400: 48 h <em>Daphnia magna</em> mg/L LC50</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>-</td>
<td>1516: 96 h <em>Lepomis macrochirus</em> mg/L LC50 static</td>
<td>120: 72 h <em>Daphnia magna</em> mg/L EC50</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt 151-21-3</td>
<td>3.59 - 15.6: 96 h <em>Pseudokirchneriella subcapitata</em> mg/L EC50 static 30 - 100: 96 h <em>Desmodesmus subspicatus</em> mg/L EC50 117: 96 h <em>Pseudokirchneriella subcapitata</em> mg/L EC50 53: 72 h <em>Desmodesmus subspicatus</em> mg/L EC50</td>
<td>10.2 - 22.5: 96 h <em>Pimephales promelas</em> promelas mg/L LC50 semi-static 10.8 - 16.6: 96 h <em>Poecilia reticulata</em> mg/L LC50 static 13.5 - 18.3: 96 h <em>Poecilia reticulata</em> mg/L LC50 semi-static 15 - 18.9: 96 h <em>Pimephales promelas</em> mg/L LC50 static 22.1 - 22.8: 96 h <em>Pimephales promelas</em> mg/L LC50 static 4.06 - 5.75: 96 h <em>Lepomis macrochirus</em> mg/L</td>
<td>1.8: 48 h <em>Daphnia magna</em> mg/L EC50</td>
</tr>
</tbody>
</table>
LC50 static 4.2 - 4.8: 96 h Lepomis macrochirus mg/L LC50 flow-through 4.3 - 8.5: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8 - 7.5: 96 h Pimephales promelas mg/L LC50 static 6.2 - 9.6: 96 h Pimephales promelas mg/L LC50 8 - 12.5: 96 h Pimephales promelas mg/L LC50 static 9.9 - 20.1: 96 h Brachydanio rerio mg/L LC50 semi-static 1.31: 96 h Cyprinus carpio mg/L LC50 semi-static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 4.5: 96 h Lepomis macrochirus mg/L LC50 4.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 7.97: 96 h Brachydanio rerio mg/L LC50 flow-through

### Persistence and degradability

Readily biodegradable.

### Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>-1.72</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt 151-21-3</td>
<td>1.6</td>
</tr>
</tbody>
</table>

### Mobility in soil

No information available.

### Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Dispose of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

This product has been tested against the UN protocol used to classify transportation hazards and it does not meet the definition of a dangerous good in transport.

**DOT:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable

**IMDG/ADR:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable
- Marine pollutant: Not applicable

**ICAO/IATA:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable
- Marine pollutant: Not applicable

The information contained in this document is subject to change or update due to changing government regulations. The user of this document assumes responsibility for complying with all applicable national and international laws and regulations regarding the shipment of Dangerous Goods.

15. REGULATORY INFORMATION

EPA RCRA Hazardous Waste Classification: D002

16. OTHER INFORMATION

**Key or legend to abbreviations and acronyms used in the safety data sheet**

TWA - TWA (Time-Weighted Average)
STEL - STEL (Short Term Exposure Limit)
ACGIH (American Conference of Governmental Industrial Hygienists)
EPA (Environmental Protection Agency)
RCRA (Resource Conservation and Recovery Act)

The information contained herein is believed to be accurate and represents the best information currently available to us, much of which comes from the manufacturer or supplier of components of this product. Therefore, Access Business Group LLC makes no warranty, express or implied, regarding the accuracy of the data. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the user's obligation to make certain that this SDS is the most current SDS for the product; to evaluate the information contained in this sheet in connection with the uses to which the product is to be put in the workplace and to use the product safely in accordance with applicable laws and regulations. Access Business Group LLC assumes no responsibility for injury from the use of the product described in this sheet in a way different from that provided in the label directions.
Prepared by: Access Business Group LLC, Environmental, Health and Safety Department, Ada, Michigan, U.S.A.

This data sheet contains changes from the previous version in section(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

***END OF SAFETY DATA SHEET***