SAFETY DATA SHEET  
G.A.C. GENERAL ACID CLEANER

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

1.1. Product identifier

Product name                  G.A.C. GENERAL ACID CLEANER
Product number                A076 EV
Internal identification       Janitorial

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

Identified uses               Heavy Duty, Acidic Descaling Cleaner.

1.3. Details of the supplier of the safety data sheet

Supplier
Evans Vanodine International
Brierley Road
Walton Summit
Preston. UK. PR5 8AH
Tel: 01772 322 200
Fax: 01772 626 000
qclab@evansvanodine.co.uk

1.4. Emergency telephone number

Emergency telephone
New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri. (Also available
24/7 from our website www.evansvanodine.co.uk) Technical Advice - 8.30am to 4.45pm -
01772 318 818 - Mon to Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical hazards               Not Classified
Health hazards                 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards          Not Classified

2.2. Label elements

Pictogram

Signal word                    Danger
Hazard statements              H315 Causes skin irritation.
                              H318 Causes serious eye damage.
                              H335 May cause respiratory irritation.
G.A.C. GENERAL ACID CLEANER

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.
P301 IF SWALLOWED:
P313 Get medical advice/ attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P315 Get immediate medical advice/ attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with local regulations.

Contains
HYDROCHLORIC ACID ...%

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>HYDROCHLORIC ACID ...%</th>
<th>15-20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 7647-01-0</td>
<td></td>
</tr>
<tr>
<td>EC number: 231-595-7</td>
<td></td>
</tr>
<tr>
<td>Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) &gt;10% &lt;25%, Eye Irrit. 2 (H319) &gt;10% &lt;25%, STOT SE 3 (H335) ≥ 10%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C9-11 ALCOHOL ETHOXYLATE (6.5 EO)</th>
<th>0.1-1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68439-45-2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. 1B - H314</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Move affected person to fresh air at once. Get medical attention if any discomfort continues.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Do not induce vomiting. Give plenty of water to drink. Get medical attention.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Wash with plenty of water. Get medical attention if irritation persists after washing.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Rinse with water. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.</td>
</tr>
</tbody>
</table>

2/7
G.A.C. GENERAL ACID CLEANER

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

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Irritation of nose, throat and airway.

Ingestion
May cause discomfort if swallowed.

Skin contact
Skin irritation. Prolonged skin contact may cause redness and irritation.

Eye contact
May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Thermal decomposition or combustion products may include the following substances:
Irritating gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions
Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. DO NOT mix with other chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials. (eg Hypochlorite / Bleach)

7.3. Specific end use(s)
G.A.C. GENERAL ACID CLEANER

Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

Usage description  See Product Information Sheet & Label for detailed use of this product.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCHLORIC ACID ...

Long-term exposure limit (8-hour TWA): WEL 1 ppm  2 mg/m³  gas and aerosol mists
Short-term exposure limit (15-minute):  WEL 5 ppm  8 mg/m³  gas and aerosol mists

HYDROGEN CHLORIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm  2 mg/m³
Short-term exposure limit (15-minute):  WEL 5 ppm  8 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment

Appropriate engineering controls  This product must not be handled in a confined space without adequate ventilation.

Eye/face protection  Wear eye protection.

Hand protection  Wear protective gloves. (Household rubber gloves.)

Other skin and body protection  Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection  Respiratory protection not required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance  Liquid.

Colour  Clear. Straw.

Odour  Characteristic. Hydrochloric acid.

pH  pH (concentrated solution): 0

Melting point  -2°C

Initial boiling point and range  102°C @ 760 mm Hg

Flash point  Boils without flashing.

Relative density  1.100 @ 20°C

Solubility(ies)  Soluble in water.

9.2. Other information

Other information  None.

SECTION 10: Stability and reactivity

10.1. Reactivity
G.A.C. GENERAL ACID CLEANER

Reactivity
Reacts with alkalis and generates heat.

10.2. Chemical stability
Stability
No particular stability concerns.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
See sections 10.1, 10.4 & 10.5

10.4. Conditions to avoid
Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials
Materials to avoid
Strong alkalis. Chlorine releasing materials will liberate toxic chlorine gas.

10.6. Hazardous decomposition products
Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects
We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Other health effects
Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

SECTION 12: Ecological Information

Ecotoxicity
The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity
Toxicity
We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

12.2. Persistence and degradability
Persistence and degradability
This product, at use dilutions, is readily broken down in biological effluent treatment plants.

12.3. Bioaccumulative potential
Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil
Mobility
Not known.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects
Not known.

SECTION 13: Disposal considerations

5/7
G.A.C. GENERAL ACID CLEANER

13.1. Waste treatment methods

Disposal methods
Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Consign empty container to normal waste.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1789
UN No. (IMDG) 1789
UN No. (ICAO) 1789

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROCHLORIC ACID 19% SOLUTION
Proper shipping name (IMDG) HYDROCHLORIC ACID 19% SOLUTION
Proper shipping name (ICAO) HYDROCHLORIC ACID 19% SOLUTION

14.3. Transport hazard class(es)

ADR/RID class Class 8 : Corrosive Substances.
ADR/RID label 8
IMDG class Class 8: Corrosive substances.
ICAO class/division Class 8: Corrosive substances.

Transport labels

14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-A, S-B
Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant. for a packaged product.

SECTION 15: Regulatory information
G.A.C. GENERAL ACID CLEANER

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation
The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG: International Maritime Dangerous Goods.
GHS: Globally Harmonized System.
Spec Conc Limits = Specific Concentration Limits.

Classification abbreviations and acronyms
Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Met. Corr. = Corrosive to metals
Skin Corr. = Skin corrosion
Skin Irrit. = Skin irritation
STOT SE = Specific target organ toxicity-single exposure

Key literature references and sources for data
Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.

Classification procedures according to Regulation (EC) 1272/2008
Calculation Method.

Revision comments
Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16)
Revision date
01/08/2017
Revision
6
SDS status
The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this Product see Section 2.

Hazard statements in full
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.