MATERIAL SAFETY DATA SHEET

Company Name: C.R. LAURENCE OF EUROPE
Address: CHARLES BABBAGE AVE.
City / State / Zip: ROCHDALE / UK / OL16 4NW
US−CHEMTREC Phone(I): (800)424−9300
US−CHEMTREC Phone(II): (703)527−3887
CAN−CANUTEC Phone: (613)996−6666
Vendor Update: 1/4/2010
Date Prepared: 2/9/2010
MSDS Number: 3371149 ; 3371149E ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: HI−GLOSS STONE COUNTERTOP CLEANER

HMIS Ratings:
- Health: Slight(1)
- Flammability: Moderate(2)
- Instability/Reactivity: Slight(1)
- Personal Protective Equipment: B

NFPA Ratings:
- Health: Slight(1)
- Flammability: Slight(1)
- Instability/Reactivity: Slight(1)

Other:
- HUMAN HEALTH MAY IRRITATE EYES.
- ENVIRONMENT TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG−TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
- PHYSICAL AND CHEMICAL HAZARDS AEROSOL CONTAINERS CAN EXPLODE WHEN HEATED, DUE TO EXCESSIVE PRESSURE BUILD−UP. WHEN SPRAYED ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL THE AEROSOL VAPOURS CAN BE IGNITED.

LABEL ELEMENTS
- DETERGENT LABELLING: 15 − PERFUMES
- LABELLING: EXTREMELY FLAMMABLE
- RISK PHRASES: R12; EXTREMELY FLAMMABLE.
- SAFETY PHRASES:
  - A1; PRESSURIZED CONTAINER: PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURE EXCEEDING 50°C. DO NOT PIERCE OR BURN, EVEN AFTER USE.
  - A2; DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.
  - S2; KEEP OUT OF THE REACH OF CHILDREN.
  - S2; KEEP OUT OF THE REACH OF CHILDREN.
  - S16; KEEP AWAY FROM SOURCES OF IGNITION – NO SMOKING.
  - S23; DO NOT BREATHE VAPOUR/SPRAY.
  - S38; IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

II. COMPOSITION, INFORMATION ON INGREDIENTS
### III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

**Eyes:**  
IRRITATING TO EYES.

**Skin:**  
PROLONGED AND FREQUENT CONTACT MAY CAUSE REDNESS AND IRRITATION.

**Ingestion:**  
MAY CAUSE DISCOMFORT IF SWALLOWED.

**Inhalation:**  
MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM.

**Other:**  
ROUTE OF ENTRY: INHALATION.

### IV. FIRST AID MEASURES

**Eyes:**  
MAKE SURE TO REMOVE ANY CONTACT LENSES FROM THE EYES BEFORE RINSING. PROMPTLY WASH EYES WITH PLENTY OF WATER WHILE LIFTING THE EYE LIDS. CONTINUE RINSE FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF DISCOMFORT CONTINUES.

**Skin:**  
REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH SKIN WITH SOAP AND WATER.

**Ingestion:**  
DO NOT INDUCE VOMITING. RINSE MOUTH THOROUGHLY. GET MEDICAL ATTENTION.

**Inhalation:**  
MOVE THE EXPOSED PERSON TO FRESH AIR AT ONCE. PROVIDE REST, WARMTH AND FRESH AIR. GET MEDICAL ATTENTION IF ANY DISCOMFORT CONTINUES. PERFORM ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

---

### Table: Chemical Ingredients

<table>
<thead>
<tr>
<th>Chemical Ingredients</th>
<th>C.A.S. Number</th>
<th>% By Weight</th>
<th>ACGIH TLV TWA/STEL</th>
<th>OSHA PEL TWA/STEL</th>
<th>Other TWA/STEL</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANE</td>
<td>106–97−8</td>
<td>5–8</td>
<td>WEL*: (8HRS) 600 PPM, 1450 MG/M3; WEL*: (15 MIN) 750 PPM, 1810 MG/M3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSINE = UNSPECIFIED</td>
<td>64742–47−8</td>
<td>3–5</td>
<td></td>
<td>15000 MG/KG (ORAL RAT); &gt;2000 MG/KG (DER–RBT)</td>
<td>&gt;5.2 MG/L/4H (INH–RAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPTHA (PETROLEUM) LIGHT ALKYLATE</td>
<td>64741–66−8</td>
<td>1–5</td>
<td></td>
<td>7000 MG/KG (ORAL RAT); &gt;2000 MG/KG (DER–RBT)</td>
<td>&gt;5.04 MG/L/4H (INH–RAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROPANE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>658 MG/L/4H (INH–RAT)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

EC NO.: 203−448−7  
CLASSIFICATION (EC 1272/2008) FLAM. GAS 1 –H220  
CLASSIFICATION (67/548/EEC) F+;R12

EC NO.: 265−149−8  
CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 – H304  
CLASSIFICATION (67/548/EEC) Xn;R65

EC NO.: 265−068−8  
CLASSIFICATION (EC 1272/2008) ASP. TOX. 1 – H304  
CLASSIFICATION (67/548/EEC) Xn;R65

---

**MATERIAL SAFETY DATA SHEET**

2
STOPPED. KEEP THE AFFECTED PERSON WARM AND AT REST. GET PROMPT MEDICAL ATTENTION.

**Other:**

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED INHALATION: VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
INGESTION: MAY CAUSE NAUSEA, HEADACHE, DIZZINESS AND INTOXICATION.
SKIN CONTACT: PROLONGED SKIN CONTACT MAY CAUSE REDNESS AND IRRITATION.
EYE CONTACT: SPRAY AND VAPOUR IN THE EYES MAY CAUSE IRRITATION AND SMARTING.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
THE SEVERITY OF THE SYMPTOMS DESCRIBED WILL VARY DEPENDENT OF THE CONCENTRATION AND THE LENGTH OF EXPOSURE.

### V. FIRE FIGHTING MEASURES

**Extinguishing Agents:**

EXTINGUISH WITH FOAM, CARBON DIOXIDE OR DRY POWDER.

**Unsuitable Extinguishing Media:**

DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

**Unusual Fire or Explosion Hazards:**

AEROSOL CANS MAY EXPLODE IN A FIRE.
HAZARDOUS COMBUSTION PRODUCTS:
IN CASE OF FIRE, TOXIC GASES (CO, CO₂, NOₓ) MAY BE FORMED.
SPECIFIC HAZARDS:
AEROSOL CONTAINERS CAN EXPLODE WHEN HEATED, DUE TO EXCESSIVE PRESSURE BUILD-UP.

**Fire Fighting Procedures:**

VENTILATE CLOSED SPACES BEFORE ENTERING THEM. MOVE THE CONTAINER FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. COOL CONTAINERS EXPOSED TO FLAMES WITH WATER UNTIL WELL AFTER THE FIRE IS OUT. AVOID WATER IN STRAIGHT HOSE STREAM; WILL SCATTER AND SPREAD FIRE.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE.

### VI. ACCIDENTAL RELEASE MEASURES

**Containment/Cleanup:**

EXTINGUISH ALL IGNITION SOURCES. AVOID SPARKS, FLAMES, HEAT AND SMOKING. VENTILATE. TRANSFER TO A CONTAINER FOR DISPOSAL.
CONTAINERS WITH COLLECTED SPILLAGE MUST BE PROPERLY LABELLED WITH CORRECT CONTENTS AND HAZARD SYMBOL.
ENVIRONMENTAL PRECAUTIONS:
AVOID DISCHARGE TO THE AQUATIC ENVIRONMENT.

**Other:**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
WEAR PROTECTIVE CLOTHING AS DESCRIBED.

### VII. HANDLING AND STORAGE

**Other:**

READ AND FOLLOW MANUFACTURER’S RECOMMENDATIONS. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. ELIMINATE ALL SOURCES OF IGGNITION. AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOURS. WASH HANDS AFTER HANDLING.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AEROSOL CANS: MUST NOT BE EXPOSED TO DIRECT SUNLIGHT OR TEMPERATURES ABOVE 50°C.
VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** WEAR APPROVED CHEMICAL SAFETY GOGGLES WHERE EYE EXPOSURE IS REASONABLY PROBABLE.

**Skin:** FOR PROLONGED OR REPEATED SKIN CONTACT USE SUITABLE PROTECTIVE GLOVES. THE MOST SUITABLE GLOVE MUST BE CHOSEN IN CONSULTATION WITH THE GLOVES SUPPLIER, WHO CAN INFORM ABOUT THE BREAKTHROUGH TIME OF THE GLOVE MATERIAL.

**Engineering:** PROVIDE ADEQUATE VENTILATION. OBSERVE OCCUPATIONAL EXPOSURE LIMITS AND MINIMIZE THE RISK OF INHALATION OF SPRAY.

**Other:** HYGIENE MEASURES DO NOT SMOKE IN WORK AREA! PROMPTLY REMOVE ANY CLOTHING THAT BECOMES CONTAMINATED. WASH PROMPTLY WITH SOAP & WATER IF SKIN BECOMES CONTAMINATED. WHEN USING DO NOT EAT, DRINK OR SMOKE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** AEROSOL . WHITE (LIQUID)

**Boiling Point:** 93.9°C (ESTIMATED)

**Solubility in Water:** PARTIALLY SOLUBLE IN WATER.

**Vapor Pressure:** 57–67 PSIG @ 21.1°C

**Physical State:** LIQUID

**Other:** RELATIVE DENSITY: 0.9185 (LIQUID ESTIMATED)

X. STABILITY AND REACTIVITY

**Stability:** STABLE UNDER NORMAL TEMPERATURE CONDITIONS AND RECOMMENDED USE.

**Hazardous Polymerization:** WILL NOT POLYMERISE.

**Hazardous Decomposition Products:** NOT KNOWN.

**Incompatible Products:** STRONG OXIDISING SUBSTANCES.

**Conditions To Avoid:** AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION. AVOID CONTACT WITH STRONG OXIDISERS.

XI. TOXICOLOGICAL INFORMATION

**Acute Toxicology Data:** TOXIC DOSE 2 – LD50 27174 (ESTIMATED) MG/KG (DER RAT)

TOXIC CONC. – LD50 69 (ESTIMATED) MG/L/4H (INH–RAT)

XII. ECOLOGICAL INFORMATION

**Environmental Fate and Distribution:** PROPANE: LC50, 96 HRS, FISH MG/L >1000

BUTANE: LC50, 96 HRS, FISH MG/L >1000

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSINE – UNSPECIFIED: LC50, 96 HRS, FISH MG/L 45 – 1740

NAPHTHA (PETROLEUM) LIGHT ALKYLATE: LC50, 96 HRS, FISH MG/L 2.7 – 10

EC50, 48 HRS, DAPHNIA, MG/L 2 – 5.9

IC50, 72 HRS, ALGAE, MG/L 13

**Persistence and Degradation:** THERE ARE NO DATA ON THE DEGRADABILITY OF THIS PRODUCT.

**Other:**
BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE ON BIOACCUMULATION.
MOBILITY: NOT NOTED.
RESULTS OF PBT AND vPvB ASSESSMENT: NOT AVAILABLE.
OTHER ADVERSE EFFECTS: NOT DETERMINED.

XIII. DISPOSAL CONSIDERATIONS
Disposal Method: DISPOSE OF WASTE AND RESIDUES IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. RECOVER AND RECLAIM OR RECYCLE, IF PRACTICAL. EMPTY CONTAINERS MUST NOT BE BURNED BECAUSE OF EXPLOSION HAZARD.
Other: DO NOT PUNCTURE OR INCINERATE EVEN WHEN EMPTY.

XIV. TRANSPORT INFORMATION
D.O.T. Shipping Name: AEROSOLS
D.O.T. Hazard Class: 2.1
Other: UN NUMBER: UN NO. (ADR/RID/ADN): 1950
UN PROPER SHIPPING NAME: AEROSOLS
TRANSPORT HAZARD CLASS(ES):
ADR/RID/ADN CLASS: 2
ADR/RID/ADN CLASS: CLASS 2: GASES
ADR LABEL NO.: 2.1
TRANSPORT LABELS: FLAMMABLE GAS 2
PACKING GROUP: NOT APPLICABLE.
SPECIAL PRECAUTIONS FOR USER:
TUNNEL RESTRICTION CODE: (D)
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: NOT APPLICABLE.

XV. REGULATORY INFORMATION
Other: STATUTORY INSTRUMENTS:
THE CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS 2009 (S.I 2009 NO. 716).
APPROVED CODE OF PRACTICE:
CLASSIFICATION AND LABELLING OF SUBSTANCES AND PREPARATIONS DANGEROUS FOR SUPPLY.
GUIDANCE NOTES
WORKPLACE EXPOSURE LIMITS EH40.
EU LEGISLATION
CHEMICAL SAFETY ASSESSMENT
NO CHEMICAL SAFETY ASSESSMENT HAS BEEN CARRIED OUT.

XVI. OTHER INFORMATION
WARRANTY INFORMATION
THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.