



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY IDENTIFICATION.

**Trade Name:**

CILLIT BANG Power Cleaner - Grime &amp; Lime

**Product Format:**

Trigger spray and Toggle squeeze lime and grime remover.

**Product Use:**

Liquid cleaner for removing grime and lime build-up on surfaces and fixtures.

**Supplier in UK**

Reckitt Benckiser (Household) Ltd  
Delta Business Park  
1200 Welton Road  
Swindon  
Wiltshire  
SN5 7XZ

tel: 0845 7697079

**Distributor In Republic Of Ireland:**

Reckitt Benckiser Ireland Ltd  
7 Riverwalk  
Citywest Business Campus  
Dublin 24  
Ireland

tel: 01 661 7318

**Date Issued**27<sup>th</sup> Oct 08**Reference**

D0188872 v1

**Issue**

1

**Changes**

New product

### 2. HAZARDS IDENTIFICATION.

**In accordance with local and national regulations:**

The product is classified and labelled in accordance with Directive 1999/45/EC

The product is classified and labelled in accordance with Detergent Directive 648/2000

Classification and labelling according to Directive 67/548/EEC

**Symbol(s)**

Xi - Irritant

**EMERGENCY OVERVIEW:**

Do not breathe spray.  
Avoid contact with skin and eyes.  
This material and its container must be disposed of in a safe way.  
DO NOT mix with bleach or other household products.  
Use only in well ventilated areas.  
KEEP OUT OF THE REACH OF CHILDREN

**Most important hazards****R -phrase(s):**

None

**Risk Combination Phrases:**

R36/38 - Irritating to eyes and skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS.

**Chemical nature of the preparation** Ingredient Declaration:

Contains less than (<) 5% Non-Ionic Surfactants.  
Perfume.

Chemical Name	CAS#	EINECS/ ELINCS	REACH No.	Proportion (% w/w)	Classification
Sulfamic Acid	5329-14-8	228-218-8		5 % - 10 %	Xi; R08/38 N; R52/53
Formic acid	64-18-6	200-579-1		< 2.5 %	C; R34
Alcohols, C9-11, ethoxylated	68439-48-3	None		< 2.5 %	Xi; R08/38
Oxalic Acid Dihydrate	6153-68-8	205-634-3		< 2.5 %	Xn; R12/22
Fragrance, Citrus Bang 285712F	N/A, MIXTURE	None		< 0.25 %	N; R52/53

For the full text of the R-phrases mentioned in this Section, see Section 16

### 4. FIRST-AID MEASURES.

<b>General Advice</b>	Show the container and / or this safety data sheet to the doctor in attendance.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water. If skin irritation persists, call a physician.
<b>Eye Contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Inhalation</b>	Move to fresh air. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment.
<b>Aggravated Medical Conditions:</b>	None known.

### 5. FIRE-FIGHTING MEASURES.

<b>Flash point:</b>	Greater than 93.3° C (>200° F).
<b>Suitable Extinguishing Media:</b>	As suitable for the surrounding fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	No information available
<b>Specific Hazards Arising from the Chemical:</b>	Thermal decomposition can lead to release of irritating gases and vapors Keep product and empty container away from heat and sources of ignition.  See Section 2 for Hazard Identification.
<b>Special Protective Equipment for Fire Fighters:</b>	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
<b>Precautions for Fire Fighters:</b>	Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES.

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<b>Personal Precautions:</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes Remove all sources of ignition. Evacuate personnel to safe areas Keep people away from and upwind of spill/leak
<b>Environmental Precautions:</b>	Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods for Cleaning up:</b>	Wear personal protective equipment.  Small spills: Dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container.  Large spills: Contain and collect for later disposal according to local, provincial, state or federal regulations.
<b>Methods for Containment:</b>	Prevent further leakage or spillage if safe to do so

## 7. HANDLING AND STORAGE.

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<b>Handling:</b>	Use only in area provided with appropriate exhaust ventilation Do not breathe vapors or spray mist. Do not ingest Avoid contact with skin and eyes Wear suitable gloves and eye/face protection DO NOT mix with bleach or other household cleaning products. Keep away from open flames, hot surfaces and sources of ignition After use on non-porous food contact surfaces rinse thoroughly with water.
<b>Storage:</b>	Keep containers tightly closed in a cool, well-ventilated place Keep away from heat and sources of ignition. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

### Exposure limits

Chemical Name	EU	Germany TRGS800:	German mak:	France - OEL	Belgium - OEL	Netherlands - OEL
Formic acid 64-18-6	TWA: 5 ppm TWA: 9 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 9.5 mg/m <sup>3</sup>	MAK: 5 ppm MAK: 9.5 mg/m <sup>3</sup> Peak: 10 ppm Peak: 19 mg/m <sup>3</sup>	VLCT: 9 mg/m <sup>3</sup> VLCT: 5 ppm	STEL: 10 ppm STEL: 19 mg/m <sup>3</sup> TWA: 5 ppm TWA: 9.5 mg/m <sup>3</sup>	MAK: 5 ppm MAK; 9 mg/m <sup>3</sup> MAK

Chemical Name	Norway - OEL	UK - OES	Portugal - OEL	Spain - OEL	Sweden - OEL	Austria - OEL
Formic acid 64-18-6	TWA: 5 ppm TWA: 9 mg/m <sup>3</sup>	15 ppm STEL, 28.8 mg/m <sup>3</sup> STEL = 15 ppm STEL 15 ppm STEL; 28.8 mg/m <sup>3</sup> STEL = 28.8 mg/m <sup>3</sup> STEL 5 ppm TWA; 9.6 mg/m <sup>3</sup> TWA = 5 ppm TWA 5 ppm TWA; 9.6 mg/m <sup>3</sup> TWA = 9.6 mg/m <sup>3</sup> TWA	STEL: 10 ppm TWA: 5 ppm	VLA-EC: 10 ppm VLA-EC: 18 mg/m <sup>3</sup> VLA-EC VLA-ED: 5 ppm VLA-ED: 9 mg/m <sup>3</sup> VLA-ED	STV: 5 ppm STV: 9 mg/m <sup>3</sup> LLV: 3 ppm LLV: 5 mg/m <sup>3</sup>	STEL: 5 ppm STEL; 9 mg/m <sup>3</sup> STEL MAK: 5 ppm MAK; 9 mg/m <sup>3</sup> MAK Ceiling: 5 ppm Ceiling: 9 mg/m <sup>3</sup> Ceiling

Chemical Name	Finland - OEL	Italy - OEL
Formic acid 64-18-6	TWA: 3 ppm TWA: 5 mg/m <sup>3</sup> STEL: 10 ppm STEL: 19 mg/m <sup>3</sup>	

### Occupational exposure controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

- Respiratory Protection:** None required under normal usage.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.  
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapors generated by this product during a spill or other clean-up operations.
- Eye Protection** Avoid contact with eyes.  
If splashes are likely to occur, wear:  
Wear eye/face protection  
Emergency responders should wear full eye and face protection.
- Hand Protection:** Avoid contact with skin  
For sensitive skin or prolonged use, wear rubber gloves.  
Emergency responders should wear impermeable gloves.
- Skin and Body Protection:** Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.

**Hygiene measures** When using, do not eat, drink or smoke.

### Environmental exposure controls

Local authorities should be advised if significant, large quantity spillages cannot be contained.

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

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<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear liquid
<b>Colour:</b>	Transparent.
<b>Odour:</b>	Citrus
<b>pH</b>	1<
<b>Boiling Point/Range:</b>	No information available
<b>Melting Point/Range</b>	No information available
<b>Solubility:</b>	Completely soluble.
<b>Specific Gravity / Density [g/mL]:</b>	1.02 - 1.06
<b>Flash Point:</b>	> 93°C / > 200°F

## 10. STABILITY AND REACTIVITY.

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<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Store away from excessive heat and moisture.
<b>Materials to Avoid:</b>	Not suitable for: Hot damaged surfaces; acid sensitive surfaces; marble; enamel; aluminum; natural stones or zinc-plated metals; textiles; carpets; copper; brass; stained fittings; linoleum; varnished, waxed or oiled wood floors; rubber; etched/matt glass. Do not mix with chlorine bleach and strong alkali compounds.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon and unknown organic compounds.
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION.

### PRODUCT TOXICITY DATA

**LD<sub>50</sub> Oral:** No information available

**LD<sub>50</sub> Dermal:** No information available

**LC<sub>50</sub> Inhalation (Dust):** No information available

**LC<sub>50</sub> Inhalation (Vapor):** No information available

#### Acute Effects:

**Eye Irritation** Irritating to eyes.  
Avoid eye contact.

**Skin Irritation** Irritating to skin.  
Avoid contact with skin.

**Inhalation** Do not breathe spray.  
Use only in a well ventilated area.

**Ingestion** Contains Formic Acid.  
Do not ingest.  
May be harmful if swallowed. See Section 4 for First Aid instructions.

**Sensitization** Not expected to be a skin sensitizer.

#### Specific Effects

**Carcinogenic Effects:** Not listed as carcinogenic by OSHA, NTP or IARC.

**Mutagenic Effects** No information available.

**Reproductive Toxicity:** No information available.

**Additional Toxicity Information:** Information is based on available component data and toxicity result of similar products.

### COMPONENT TOXICITY DATA

Chemical Name	CAS#	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 - With units - Rat/Rabbit - For Display
sulfamic Acid	5329-14-6	1450 mg/kg ( Rat )		
Formic acid	64-18-6	730 mg/kg ( Rat )		
Alcohols, C9-11, ethoxylated	68439-46-3	1378 mg/kg ( Rat )	2 g/kg ( Rabbit )	

## 12. ECOLOGICAL INFORMATION.

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### Ecotoxicity:

**Ecological Information:** Contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.

### PRODUCT TOXICITY DATA

**Aquatic toxicity:** This product is not classified as an environmental hazard.

### COMPONENT TOXICITY DATA

#### *Sulfamic Acid*

Freshwater Algae	-
Freshwater Fish	LC50 = 70.3 mg/L Pimephales promelas 96 h
Microtox	-
Water Flea	-

#### *Formic acid*

Freshwater Algae	EC50 = 25 mg/L 96 h
Freshwater Fish	-
Microtox	EC50 = 46.7 mg/L 17 h
Water Flea	EC50 = 34 mg/L 48 h

#### *Alcohols, C9-11, ethoxylated*

Freshwater Algae	-
Freshwater Fish	-
Microtox	-
Water Flea	-

#### *Oxalic Acid Dihydrate*

Freshwater Algae	-
Freshwater Fish	-
Microtox	-
Water Flea	-

#### *Fragrance, Citrus Bang 285712F*

Freshwater Algae	-
Freshwater Fish	-
Microtox	-
Water Flea	-

### Other Information

**Ozone Depletion Potential (ODP) (R-11 = 1):** No information available.

**Global Warming Potential (GWP):** No information available.

**Additional Ecological Information:** Information given is based on data on the components and the ecotoxicology of similar products.

## 13. DISPOSAL CONSIDERATIONS.

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**Disposal Methods and Containers:** This material and its container must be disposed of in a safe way. Dispose of according to Local, State and Federal regulations.

**Contaminated Packaging:** For bulk quantities dispose of in accordance with local, regional or national requirements. For further information contact your local waste authority.

**Further information:** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Waste codes should be assigned by the user based on the application for which the product was used.

Packaging and container to be recycled only if emptied completely!

## 14. TRANSPORT INFORMATION.

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### ICAO

See IATA

### IATA

<b>UN-No:</b>	UN1760
<b>Proper shipping name:</b>	Corrosive liquid, n.o.s. (Contains Sulfamic Acid and Formic Acid)
<b>Hazard Class</b>	8
<b>Packing group:</b>	III
<b>Description:</b>	Corrosive liquid, n.o.s.(Formic acid, Sulfamic acid ),8,PG III
<b>Maximum Quantity:</b>	LTD QTY: Packaging instruction Y818: 0,5 inner packaging 1,0L combined packaging. PAX: Packaging instructions 818: 5L net quantity / packaging, only combined packaging allowed. Packagings have to meet the performance capabilities of packing group II CAO: Packaging instruction 820: 60L net quantity / packaging. Packagings have to meet the performance capabilities of packing group II
<b>Remarks:</b>	Requirements from States or Airlines may differ.

### IMDG/IMO

<b>UN-No</b>	UN1760
<b>Proper Shipping Name</b>	Corrosive liquid, n.o.s. (Contains Sulfamic Acid and Formic Acid)
<b>Hazard Class</b>	8
<b>Packing Group</b>	III
<b>EmS:</b>	F-A, S-B
<b>Description</b>	Corrosive liquid, n.o.s.(Formic acid, Sulfamic acid ),8(+),PG III
<b>Limited Quantity IMDG</b>	5L inner packaging, 30Kg. combined packaging, 5L inner packaging, 20 Kg. Tray

### RID

See ADR

### ADR

<b>UN-No:</b>	UN1760
<b>Proper shipping name:</b>	Corrosive liquid, n.o.s. (Contains Sulfamic Acid and Formic Acid)
<b>Hazard Class</b>	8
<b>Packing group:</b>	III
<b>Classification Code</b>	C9
<b>Description:</b>	Corrosive liquid, n.o.s.(Formic acid, Sulfamic acid ),8,III
<b>ADR Hazard ID Number</b>	80
<b>ADR/RID Limited Qty</b>	LQ 7 5 L inner packaging, 30 kg combined packaging, 5 L inner packaging, 20 kg Tray



## 15. REGULATORY INFORMATION.

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**Chemical safety assessment following regulation 1907/2006/EC:**  
not relevant.

The product is classified and labelled in accordance with Directive 1999/45/EC  
The product is classified and labelled in accordance with Detergent Directive 648/2000  
Classification and labelling according to Directive 67/548/EEC

### Labelling

**Symbol(s)**

Xi - Irritant



**R -phrase(s)**

None

**Risk Combination Phrases**

R36/38 - Irritating to eyes and skin

**S -phrase(s)**

S 2 - Keep out of the reach of children  
S23 - Do not breathe gas/fumes/vapor/spray  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 - After contact with skin, wash immediately with plenty of water.  
S35 - This material and its container must be disposed of in a safe way  
S46 - If swallowed, seek medical advice immediately and show this container or label  
S50 - Do not mix with bleach or other cleaning products.  
S51 - Use only in well ventilated areas

**Safety Combination Phrases**

S24/25 - Avoid contact with skin and eyes

**Additional Recommended Phrases:**

If you have sensitive skin, we recommend you to wear gloves..

**Ingredient Declaration:**

Contains less than (<) 5% Nonionic surfactants.  
Perfume.

## 16. OTHER INFORMATION.

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**Risk Phrases:**

• R34 - Causes burns.

**Risk Combination Phrases:**

• R21/22 - Harmful in contact with skin and if swallowed.  
• R36/38 - Irritating to eyes and skin.  
• R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.



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