

# Brakes Concentrated Lemon Cleaner - A84792



## Safety Data Sheet

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

Issue 2T  
Revision 27 April 2015

### 1 Identification of the substance/mixture and of the company undertaking

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>1.1 Product Identifier</b>  | Product Name  | Brakes Concentrated Lemon Cleaner |  |
|  | Product Codes   | A84792                            |  |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> |   |                                   |  |
| Identified Uses of the substance/mixture   | Hard Surface Cleaner. Professional Use.   |                                   |  |
| Uses advised against   | None Identified   |                                   |  |
| <b>1.3 Details of the supplier of the safety data sheet</b>                              |   |                                   |  |
| Manufacturer/Distributor   | Brakes,<br>Enterprise House,<br>Eureka Business Park,<br>Ashford, Kent, TN25 4AG                                    | Tel.<br>Fax.<br>Web:<br>email     | 0845 6069090<br>01233 635072<br><a href="http://www.brake.co.uk">www.brake.co.uk</a><br><a href="mailto:customer.service@brake.co.uk">customer.service@brake.co.uk</a> |
| <b>1.4 Emergency Telephone Number</b>  |   |                                   |  |
| National Advisory Body/Poison Centre   |   |                                   |  |
| Tel.   | National Poison Information Service 0870 243 2241 (UK Only)<br>(0870 600 6266 Medical Professionals Only – UK Only) |                                   |  |
| Manufacturer/ Distributor/ Importer  |   |                                   |  |
| Telephone number:  | 0845 6069090  |                                   |  |

### 2 Hazards Identification

#### 2.1 Classification of Substance or mixture

|  |  |                                |
|--|--|--------------------------------|
| Product Definition   | Mixture  |                                |
| <b>Classification according to Directive 1999/45/EC [DPD]</b>    |  |                                |
| Classification   | Xi   | Irritant                       |
| Human Health Hazards   | R41  | Risk of serious damage to eyes |
| Environmental Hazards  |  |                                |
| <b>Classification according to Regulation (EC) No. 1272/2008</b> |  |                                |
| Physical Hazards   | Flam Liq 3 – H225  |                                |
| Human Health Hazards   | Skin Irrit 2 – H315<br>Eye Dam 1 – H318<br>Sens Skin -1 – H317 |                                |
| Environmental Hazards  | Aqua Chronic 1 - H400  |                                |

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### 2.2 Label Elements

#### Label Elements (In Accordance With Directive 1999/45/EC [DPD])

Hazard Symbol(s)



Indication of danger

IRRITANT

Risk Phrases

R41 Risk of serious damage to eyes

Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

#### Label Elements (In Accordance With (EC) No. 1272/2008)

Pictogram(s)



Signal Word

Danger

Contains Alcohols, C9-11 ethoxylated, Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides, 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,N-C8-18(even numbered) acyl derivs., hydroxides, inner salts and Limonene

Hazard Statements

H225 Flammable liquid and vapour  
 H315 Causes skin irritation  
 H318 Causes serious eye damage  
 H317 May cause an allergic skin reaction  
 H410 Very toxic to aquatic life  
 EUH208 Contains Limonene, alpha Pinene and Citral. May produce an allergic reaction

Precautionary statements

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Response

P280 Wear protective gloves and eye or face protection  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor  
 P332 + P313 If skin irritation occurs: Get medical advice / attention.

### 2.3 Other hazards

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### 3 Composition/Information on Ingredients

#### 3.2 Mixtures

| Product/Ingredient Name  | Identifiers<br>Reach No/CAS/EC No                | %     | Classification                             |  | Type |
|--|--|-------|--|--|------|
|  |  |       | 67/548/EEC                                 | Regulation (EC) No.<br>1272/2008 [CLP]   |      |
| Trisodium nitrilotriacetate  | 01-2119519239-36/<br>5064-31-3/<br>225-768-6     | 1-5   | Xn; R22,<br>R36, R40                       | Carc 2 (H351)<br>Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)  | 1    |
| Propan-2-ol  | 01-2119457558-25/<br>67-63-0/<br>200-661-7       | 1-5   | F; R11<br>Xi; R36<br>R67                   | Flam. Liquid 2 (H225)<br>Eye Irrit. 2 (H319)<br>STOT Single Exp 3 (H336)   | 1 2  |
| C9-11 Alcohol Ethoxylate   | Not Available/<br>68439-46-3/<br>Polymer         | 5-15  | Xn; R22<br>Xi; R41                         | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H319)   | 1    |
| Alkyl(C12-16)dimethylbenzylammonium chloride   | Not Available/<br>68424-85-1/<br>270-325-2       | 1-5   | C; R34<br>Xn: R21/22<br>N; R50             | Not Available  | 1    |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides   | 01-2119490061-47/<br>308062-28-4/<br>931-292-6   | 5-15  | Xn; R22<br>Xi; R38 R41<br>N; R50           | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Damage 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | 1    |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts | 01-2119488533-30/<br>Not Available/<br>931-296-8 | 1-5   | Xi; R41                                    | Eye Damage 1 (H318)<br>Aquatic Chronic 3 (H412)  | 1    |
| d-Limonene   | 01-2119529223-47/<br>5989-27-5/<br>201-265-7     | 0.1-1 | Xn; R65<br>Xi; R38 R43<br>N; R50/53<br>R10 | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Asp. Tox. 1 (H304)<br>Aquatic Chronic 1 (H410)    | 1    |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

- Type
- 1 Substance classified with a health or environmental hazard
  - 2 Substance with a workplace exposure limit
  - 3 Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
  - 4 Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

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### 4 First aid measures

#### 4.1 Description of first aid measures

|                           |  |
|---------------------------|--|
| Eye Contact               | Rinse immediately with copious amounts of water for at least 10 minutes, holding the eyelids open. If irritation occurs obtain medical advice.   |
| Inhalation                | Remove from source of exposure. Seek medical advice if symptoms persist. Exposure by inhalation is unlikely in normal use.   |
| Skin Contact              | Flush contaminated area with running water for 10 minutes, remove any contaminated clothing and laundry before re-use. If irritation persists or there is any sign of skin damage seek medical advice. |
| Ingestion                 | If conscious, remove product from mouth, give casualty a small quantity of water or milk to drink and seek medical advice. Do not induce vomiting  |
| Protection of First Aider | Wear PPE if appropriate (Refer to section 8.2)   |

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

##### Symptoms

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Irritations are the most likely symptoms when there is exposure to skin and eyes. Not considered to cause sensitization. Further important symptoms and effects are so far not known.

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

##### Treatment

Treat according to symptoms (decontamination, vital functions). Toxicological information on components, where available, is given in section 11.

### 5 Fire fighting measures

#### 5.1 Extinguishing media

|                                |   |
|--------------------------------|---|
| Extinguishing media            | Extinguish with foam, carbon dioxide, dry powder or water fog |
| Unsuitable extinguishing media | None known  |

#### 5.2 Special hazards arising from the substance or mixture

|                                       |   |
|---------------------------------------|---|
| Hazards from the substance or mixture | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous combustion products         | During fire toxic gases, CO and CO <sub>2</sub> are formed                          |

#### 5.3 Advice for fire-fighters

|  |   |
|--|---|
| Special precautions for fire-fighters          | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear self-contained breathing apparatus and suitable personal protective equipment as appropriate to the surrounding fire.   |

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### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray/mist. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, section 8.

#### 6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/fire fighting water.

#### 6.3 Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| <b>Small spill:</b> | Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.  |
| <b>Large spill</b>  | Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). |

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

### 7 Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with the skin, eyes and clothing. Contaminated surfaces may be extremely slippery. Clean up spillages. Do not allow to dry. Do not eat, drink or smoke in area where material is used or stored.

#### 7.2 Conditions for safe storage, including any incompatibilities

Protect against heat. Store in original labelled containers. Keep container tightly closed, upright and in a cool place. Keep away from acids. Protect from freezing.

#### 7.3 Specific end use(s)

|                                      |                                |
|--------------------------------------|--------------------------------|
| Recommendations                      | Not specific advice available. |
| Industrial sector specific solutions | Not applicable.                |

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### 8 Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limits

###### Product/ingredient name

Propan-2-ol

###### Exposure limit values

WEL TWA – 8 hrs 400ppm 900 mgm<sup>-3</sup> STEL - 15 Mins 500ppm 1250 mgm<sup>-3</sup>

##### Derived effect levels

No DNELs available for the mixture

##### Predicted effect concentrations

No PNECs available for the mixture.

#### 8.2 Exposure controls

##### Process conditions

Provide eye-wash stations

##### Engineering Measures

Where possible this product should be used via a dispenser to avoid splashes and contact with the skin. Wear appropriate PPE if contact is possible when changing flasks. If airborne vapours or mists are generated provide adequate general and local exhaust ventilation to keep exposure below any statutory limits.

##### Personal Protective Equipment

Respiratory protection:

Not needed in normal use. If vapour/aerosol is created use particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 14387)

Hand protection

Wear chemical resistant protective gloves (EN 374)

Review condition of gloves when in use, especially for wear, cuts and breakthrough after prolonged contact.

Eye protection

Not needed in normal use. Wear tightly fitting safety goggles (splash goggles) (e.g. EN 166) if splashing is likely to occur

Body protection:

Not needed in normal use. Wear chemical resistant clothing and boots if exposure/splashing may occur. Other body protection may be suitable depending on activity and possible exposure, e.g. apron, chemical-protection suit (meeting EN 14605).

##### General safety and hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

### 9 Physical & chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |                                       |
|--|---------------------------------------|
| Physical state                               | Liquid.                               |
| Colour                                       | Clear Yellow                          |
| Odour  | Product specific.                     |
| Odour threshold                              | Not determined for the mixture.       |
| pH value 20 Deg C (4%)                       | 10-11                                 |
| Melting point/Freezing point                 | Not determined for the mixture.       |
| Initial boiling point and boiling range      | Not determined for the mixture.       |
| Flash point                                  | >100 deg C                            |
| Evaporation rate                             | Not determined for the mixture.       |
| Flammability (solid, gas)                    | Not flammable.                        |
| Burning time                                 | Not determined for the mixture.       |
| Burning rate                                 | Not determined for the mixture.       |
| Upper/lower flammability or explosive limits | Not determined for the mixture.       |
| Vapour pressure                              | Not determined for the mixture.       |
| Relative density                             | 1.005-1.015                           |
| Solubility(ies)                              | Readily soluble in cold and hot water |
| Partition coefficient: n-octanol/water       | Not determined for the mixture.       |
| Auto ignition temperature                    | Not determined for the mixture.       |
| Decomposition temperature                    | Not determined for the mixture.       |
| Viscosity                                    | Not determined for the mixture.       |
| Explosive properties                         | Not explosive                         |
| Oxidising properties                         | None                                  |

#### 9.2 Other Information

No further relevant information available

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### 10 Stability and Reactivity

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical Stability</b>                 | Stable mixture under normal conditions or storage and use.   |
| <b>10.3 Possibility of hazardous reactions</b> | Hazardous reactions will not occur in normal storage conditions.                                     |
| <b>10.4 Conditions to avoid</b>                | None known in normal storage conditions.   |
| <b>10.5 Incompatible materials</b>             | Will react with acids.   |
| <b>10.6 Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

### 11 Toxicology

#### 11.1 Information on toxicological effects

Toxicological data for this mixture is not available as animal toxicity studies have not been carried out. Toxicological data for the raw materials is, where provided by the manufacturer, available on request.

### 12 Ecological information

#### 12.1 Toxicity

Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out. Ecological Toxicity data for the raw materials is, where provided by the manufacturer, available on request.

#### 12.2 Persistence and degradability

**Conclusion/Summary** Any surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

#### 12.3 Bioaccumulative potential

**Conclusion/Summary** Not determined for the mixture.

#### 12.4 Mobility in soil

**Soil/water partition coefficient (KOC)** Not determined for the mixture.

**Mobility** Not determined for the mixture.

#### 12.5 Results of PBT and vPvB assessment

**PBT** Not applicable.

**vPvB** Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.

### 13: Disposal considerations

#### 13.1 Waste treatment methods

**Waste from residues / unused products** Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.  
EWC Code 20 01 29\* - detergents containing dangerous substances



**Empty packaging recommendation:** Dispose of observing national or local regulations. (Can be cleaned with water)  
EWC Code 20 01 39

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| 14: Transport information  |  |          |  |                |
|--|--|----------|--|----------------|
|  | ADR/RID  | ADN/ADNR | IMDG   | IATA           |
| 14.1 UN number   |  |          | UN 1993  |                |
| 14.2 UN proper shipping name   |  |          | Flammable liquids, nos (contains Isopropanol)  |                |
| 14.3 Transport hazard class(es):   |  |          |   |                |
| 14.4 Packing group   |  |          | III  |                |
| 14.5 Environmental hazards   |  |          | Yes  |                |
| 14.6 Special precautions for user  |  |          |  |                |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode |  |          |  | Not Applicable |
| Other relevant information (ADR)   | Hazard ID 80 Tunnel Code €<br>Normally shipped as Limited Quantity |          |  |                |

| 15: Regulatory information  |                                    |
|---|------------------------------------|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |                                    |
| Ingredients according to EC Detergents Regulation 648/2004  |                                    |
| 15-30%  | Non-Ionic Surfactants              |
| <5%   | Cationic Surfactants               |
|   | NTA (nitriloacetic acid) and salts |
| Contains  | Alpha Pinene, Citral, Limonene     |
| 15.2 Chemical safety assessment   |                                    |
| A chemical safety assessment has not been carried out on the mixture                                |                                    |



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### 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**Reason for revision:** Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

#### Full text of the R, H and EUH phrases mentioned in section 3

|      |   |
|------|---|
| R36  | Irritating to eyes                              |
| R22  | Harmful if swallowed                            |
| R38  | Irritating to skin                              |
| R41  | Risk of serious damage to eyes                  |
| R50  | Very toxic to aquatic organisms                 |
|      |   |
| H319 | Causes serious eye irritation                   |
| H302 | Harmful if swallowed                            |
| H315 | Causes skin irritation                          |
| H318 | Causes serious eye damage                       |
| H400 | Very toxic to aquatic life                      |
| H411 | Toxic to aquatic life with long lasting effects |

#### Abbreviations and acronyms

|               |   |
|---------------|---|
| ATE           | Acute Toxicity Estimate   |
| CLP           | Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008] |
| DNEL          | Derived No Effect Level   |
| EUH statement | CLP-specific Hazard statement   |
| N/A           | Not Applicable  |
| PNEC          | Predicted No Effect Concentration   |
| REACH No      | REACH registration number, without supplier specific part                         |