

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Issuing Date** 23-Apr-2018

**Revision date** 20-May-2020

**Revision number** 4

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**1.1. Product Identifier**

**Product Code** 50754 - PBV000421  
**Product name** LOD Red  
**CLP unique formula identifier (UFI)** 1L: DFJH-749Q-000S-VSKF; 5L: PPMA-QF4M-Q10Y-3XDK

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

**Recommended Use** Descaler

**1.3. Details of the supplier of the safety data sheet**

**Supplier name** Cafetto  
**Supplier Address** 12 Coglin Street, Brompton SA 5007 Australia  
Parkstraat 83 2514JG Den Haag, The Netherlands;  
9 Raffles Place, #27-00 Republic Plaza, Singapore 048619  
**Supplier phone number** Australia: +61 8 8245 6901  
New Zealand: 0800 772 227  
USA: 206 462 5212  
EU: +44 20 7193 7370  
Singapore: 800 616 3122  
**Supplier email** enquiry@cafetto.com

For further information, please contact. \_\_\_\_\_

**1.4. Emergency telephone number**

**Emergency Telephone** No information available

**Emergency Telephone §45 - (EC)1272/2008**

Europe	112
Australia	000
UNITED STATES	911
United Kingdom	999

**Section 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No 1272/2008**

Skin Corrosion/Irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

**2.2. Label Elements**



**Signal Word**

**DANGER**

**hazard statements**

H314 - Causes severe skin burns and eye damage

**Precautionary Statements - EU (§28, 1272/2008)**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

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

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

**Additional Information**

This product requires tactile warnings if supplied to the general public

This product requires child resistant fastenings if supplied to the general public

**2.3. Other Hazards**

No information available



### Section 3: Composition/information on ingredients

#### 3.1 Substances

Not Applicable.

#### 3.2 MIXTURES

Chemical Name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Lactic acid	201-196-2	50-21-5	30-60%	no data available	no data available

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### Section 4: First aid measures

#### 4.1. Description of first aid measures

##### General Advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

##### INHALATION

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

##### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

##### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

##### INGESTION

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

**Self-Protection of the First Aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

##### Symptoms

Burning sensation.



**4.3. Indication of any immediate medical attention and special treatment needed****Note to physicians**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## Section 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media**

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

**Large fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable Extinguishing Media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture****Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products**

Carbon oxides.

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## Section 6: Accidental release measures

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

**Personal Precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**OTHER INFORMATION** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

#### **6.4. Reference to other sections**

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
------------------------------------	--------------------------------------------------------------------------

### **Section 7: Handling and storage**

#### **7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
--------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
---------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

<b>Storage conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.
---------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

#### **7.3. Specific end use(s)**

<b>Risk Management Methods (RMM)</b>	The information required is contained in this Safety Data Sheet.
--------------------------------------	------------------------------------------------------------------

### **Section 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

<b>Exposure limits</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

#### **8.2. Exposure controls**

##### **Personal Protective Equipment**



<b>Eye/Face Protection</b>	Face protection shield.
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and Body Protection</b>	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Environmental Exposure Controls</b>	No information available.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Colorless Red
<b>Odor</b>	Characteristic
<b>color</b>	No information available
<b>Odor Threshold</b>	Not applicable

<u>Property</u>	<u>VALUES</u>	<u>Remarks Method</u>
<b>pH</b>	1.3	
<b>Melting / Freezing Point</b>	no data available	None known
<b>Boiling Point / Boiling Range</b>	No data available	None known
<b>flash point</b>	No data available	None known
<b>evaporation rate</b>	no data available	None known
<b>flammability (solid, gas)</b>	no data available	None known
<b>Flammability limit in air</b>		None known
<b>Upper Flammability Limit</b>	no data available	
<b>Lower Flammability Limit</b>	no data available	
<b>vapor pressure</b>	no data available	None known
<b>Vapor Density</b>	no data available	None known
<b>Relative Density</b>	1.1	
<b>Water Solubility</b>	Soluble in water	
<b>solubility(ies)</b>	no data available	None known
<b>Partition coefficient: n-octanol/water</b>	Not applicable	
<b>Autoignition Temperature</b>	no data available	None known
<b>decomposition temperature</b>	no data available	None known
<b>Kinematic Viscosity</b>	no data available	None known
<b>Dynamic Viscosity</b>	No data available	None known



<b>Explosive Properties</b>	no data available
<b>Oxidizing Properties</b>	no data available

**9.2. Other information**

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## Section 10: Stability and reactivity

**10.1. Reactivity**

<b>Remarks</b>	no data available.
----------------	--------------------

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

<b>Possibility of hazardous reactions</b>	None under normal processing.
-------------------------------------------	-------------------------------

<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
---------------------------------	------------------------------------------

**10.4. Conditions to avoid**

Exposure to air or moisture over prolonged periods.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

**10.5. Incompatible materials**

Acids, Bases, Oxidizing agent.

**10.6. Hazardous decomposition products**

Carbon oxides.

## Section 11: Toxicological information

**11.1. Information on toxicological effects****Information on Likely Routes of Exposure****Product information**

**INHALATION**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

**Eye Contact**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin Contact**

Specific test data for the substance or mixture is not available. corrosive. (based on components). Causes burns.

**INGESTION**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. MAY CAUSE BLINDNESS. Coughing and/ or wheezing.

**Numerical Measures of Toxicity**

**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 6,972.00 mg/kg

**Unknown Acute Toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Lactic acid	= 3543 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	> 7.94 mg/L ( Rat ) 4 h

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

**Skin Corrosion/Irritation**

Classification based on data available for ingredients. Causes burns.

**Serious eye damage/eye irritation**

Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.





**respiratory or skin sensitization** No information available.

**Germ Cell Mutagenicity** No information available.

**carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Aspiration Hazard** No information available.

## Section 12: Ecological information

### 12.1. Toxicity

**ecotoxicity** No information available.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in Soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

### 12.6. Other adverse effects

**Other Adverse Effects** No information available.

## Section 13: Disposal considerations



**13.1. Waste treatment methods**

<b>Waste from Residues/Unused Products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated Packaging</b>	No information available.

**Section 14: Transport information**

<b>IMDG</b>	Not regulated
<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper shipping name</b>	NOT REGULATED
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not Applicable
<b>14.6 Special provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

<b>RID</b>	NOT REGULATED
<b>14.1 UN-No</b>	NOT REGULATED
<b>14.2 Proper shipping name</b>	NOT REGULATED
<b>14.3 Hazard class</b>	NOT REGULATED
<b>14.4 Packing group</b>	NOT REGULATED
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special provisions</b>	None

<b>ADR</b>	NOT REGULATED
<b>14.1 UN-No</b>	NOT REGULATED
<b>14.2 Proper shipping name</b>	NOT REGULATED
<b>14.3 Hazard class</b>	NOT REGULATED
<b>14.4 Packing group</b>	NOT REGULATED
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special provisions</b>	None

<b>IATA</b>	Not regulated
<b>14.1 UN Number</b>	Not regulated
<b>14.2 Proper shipping name</b>	NON REGULATED
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special provisions</b>	None

**Section 15: REGULATORY INFORMATION**

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

Chemical Name	French RG number	Title
---------------	------------------	-------



Lactic acid 50-21-5	RG 5, RG 14, RG 15, RG 15bis, RG 20bis	-
------------------------	----------------------------------------	---

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Persistent Organic Pollutants**

Not Applicable.

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable.

**15.2. Chemical safety assessment**

No information available.

**Section 16: Other information**

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

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

**Key literature references and sources for data used to compile the SDS**

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AEGL(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- Organization for Economic Co-operation and Development High Production Volume Chemicals Program
- Food Research Journal
- Hazardous Substance Database
- International Uniform Chemical Information Database (IUCLID)
- Japan GHS Classification
- Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- NIOSH (National Institute for Occupational Safety and Health)
- National Library of Medicine's ChemID Plus (NLM CIP)



---

National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Issuing Date** 23-Apr-2018

**Revision date** 20-May-2020

**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.**

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**

