



SAFETY DATA SHEET

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

1.1 Product identifier

Mixture identification:

Trade name: Dishwasher cleaner 2 in 1

Trade code: [LIQ105] 484000008844 - [LIQ201] 484000008847 - [LIQ108] 484000008896 - [LIQ208] 484000008897

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

Detergent liquid for dishwasher machine maintenance.

Uses advised against

Avoid any use other than those recommended / provided on the packaging.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Packaging Imolese S.p.A.

Street : via Filippo Turati, 22

Postal code/city : 40026 Imola

Telephone : 0542/689111

Information contact : info@packagingimolese.com

1.4 Emergency telephone number

For urgent safety information call the Anti-Poison Center of your country.
Check the emergency list on page 11.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Hazard classes and hazard categories

Eye Dam. 1

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

CONTAINS Isotridecanol ethoxylated

Precautionary statements

P102 Keep out of reach of children.

P103 Read label before use.

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

P280	Protect the eyes/ protect the face.
P310	Immediately call a POISON CENTER or a doctor
P301+P312	IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional information

Chemical composition Reg 648/2004/CE

5% - 15%: Non ionic surfactant.

< 5%: Non ionic surfactant.

Other components: Perfume; 1,2-benzisothiazol-3-(2H)-one, 2-methyl-2H-isothiazol-3-one.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.1 Substances: This product is a mixture

3.2 Mixtures

Hazardous ingredients

CITRIC ACID ; REACH registration No. : 01-2119457026-42 ; EC No. : 201-069-1; CAS No. : 77-92-9

Weight fraction : 15 - 20 %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Poly(oxy-1,2-ethanediyl)aliphatridecyl omega hydroxy branched ; CAS No. : 69011-36-5

Weight fraction : 5 - 10 %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Aquatic Chronic 3 ; H412

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

IMMEDIATE ACTION: Bring the injured to a ventilated area Next intervention: If you feel unwell seek medical advice.

MANEUVERS OR SUBSTANCES TO AVOID: Do not carry and do not dispense substances without consulting a doctor.

In case of skin contact

RAPID ACTION: Wash the area coming in contact with the product with water and soap. NEXT ACTION: Check if the

product may have come into contact with clothing; if so provide a cloth change as soon as possible. RIGGING OR

MATERIALS TO AVOID: In case of irritation consult a doctor and show the label or this document before using any medication.

After eye contact

RAPID ACTION: Rinse long with water while holding eyelids open NEXT ACTION: Seek medical advice RIGGING OR

MATERIALS TO AVOID: Do not use eye drops or ointments without consulting a doctor.

After ingestion

RAPID ACTION: Move the victim to a ventilated area. Consult a doctor immediately. Next Action: None RIGGING OR

MATERIALS TO AVOID: Do not induce vomiting. Do not use any medication without consulting a physician

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of vapors can cause moderate irritation of the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and vomiting. The product causes serious eye injury and may cause corneal opacity, iris lesions, irreversible eye coloration.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell consult a doctor immediately (if possible show directions for use or present safety data sheet)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The mixture is not flammable, but in case of fire burns: you can use any approved extinguishing agent available.

5.2 Special hazards arising from the substance or mixture

The mixture is not flammable, but a possible combustion of its components generates harmful gases. Move away from the area and wait for rescue.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not inhale the fumes of combustion. Use an appropriate respiratory protection: ABEK 2/P3

5.4 Additional information

Remove persons to safety.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment to prevent contamination of the skin, eyes and personal clothing.

For non-emergency personnel

There are no specific additional precautions.

6.2 Environmental precautions

Do not discharge into drains or the aquatic environment. In the case of diffusion into waterways, soil or drains inform the competent authority.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be immediately cleaned using a common floor cloth dampened with any floor cleaner available commercially.

Other information

None in particular.

6.4 Reference to other sections

Safe handling: Part 7. Protection: Part 8. Disposal: Part 13

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Specific requirements or handling rules

Handle with care, avoiding knocks, bumps and frictions. Avoid contact with eyes and skin. Please see paragraph 8 for recommended protective equipment.

Advices on general occupational hygiene

At work do not eat, drink or smoke

7.2 Conditions for safe storage, including any incompatibilities

Use only in the original container. Do not reuse empty containers.

Requirements for storage rooms and vessels

Keep container in a cool, well-ventilated area. Provide storage areas possibly not affected by accentuated temperature changes. Protect container from ultraviolet rays and avoid subjecting it to direct sunlight.

7.3 Specific end use(s)

Only those recommended / provided in the product label

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

PNEC

Limit value type :	PNEC aquatic, freshwater (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	water
Limit value :	0,44 mg/l
Limit value type :	PNEC aquatic, marine water (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	water
Limit value :	0,044 mg/l
Limit value type :	PNEC (Industrial) (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Soil
Limit value :	33,1 mg/kg
Limit value type :	PNEC sediment, freshwater (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Soil
Limit value :	34,6 mg/kg

Limit value type : PNEC sediment, marine water (CITRIC ACID ; CAS No. : 77-92-9)
 Exposure route : Soil
 Limit value : 3,46 mg/kg

8.2 Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Personal protection equipment



When using do not eat, drink, smoke, sniff.

Eye/face protection

Suitable eye protection

Eye glasses with side protection

Skin protection

Hand protection

We recommend the use of protective gloves

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour : Lemon.

Safety relevant basis data

Appearance :		Clear liquid biphasic
Colour :		Clear/blu
Melting point/melting range :		Not applicable (Liquid product)
Initial boiling point and boiling range :	(1013 hPa)	Not relevant
Decomposition temperature :		Not relevant
Flash point :		Not flammable
Ignition temperature :		Not flammable
Flammability (solid, gas) :		Not applicable and not flammable (Liquid product)
Upper/lower flammability or explosive limits :		Not flammable and not explosive
Explosive properties :		Not explosive
Vapour pressure :	(50 °C)	Not relevant
Vapour density :		Not relevant
Density :	(20 °C)	1,085 - 1,095 g/cm ³
Solvent separation test :	(20 °C)	Not relevant
Water solubility :	(20 °C)	Complete
pH :	(20 °C / 20 g/l)	2,5 - 3,5
Octanol–water partition coefficient (log Pow):		Not applicable (mixture)
Viscosity :	(20 °C)	Not viscous
Odour threshold :		Not relevant
Evaporation Rate :		Not relevant
Oxidant properties		(It not contains oxidating agents)
Flammable solids :	Not applicable.	
Flammable gases :	Not applicable.	
Soluble in:	Water	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if used and maintained in accordance with the provisions.

10.2 Chemical stability

The product is a stable mixture under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Observe the information in section 7 and 8 for a correct handling of the product.

10.5 Incompatible materials

No particular compatibility problem known.

10.6 Hazardous decomposition products

None under normal use and conservation. In the case of partial combustion or oxygen deficiency, it can form dangerous fumes or gases nitrogen, sulfur or carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	11700 mg/kg
Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Oral
Species :	Mouse
Effective dose :	5400 mg/kg
Parameter :	LD50 (Poly(oxy-1,2-ethanediyl)alphanatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 423

Acute dermal toxicity

Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

Other acute toxicity

Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Intraperitoneal
Species :	Rat
Effective dose :	725 mg/kg
Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Intraperitoneal
Species :	Mouse
Effective dose :	940 mg/kg
Parameter :	LD50 (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Intravenous
Species :	Mouse
Effective dose :	42 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Parameter :	Primary irritation to the skin (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Rabbit
Result :	Not Irritant
Method :	OECD 404
Parameter :	Primary irritation to the skin (Poly(oxy-1,2-ethanediyl)alphanatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Rabbit
Result :	Irritant

Irritation to eyes

Parameter :	Irritation to eyes (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Rabbit
Result :	Irritant
Method :	OECD 405
Parameter :	Irritation to eyes (Poly(oxy-1,2-ethanediyl)alphanatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Rabbit
Result :	Irreversible.

Sensitisation

In case of skin contact

Parameter :	Skin sensitisation (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Guinea pig
Result :	Not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter :	NOAEL(C) (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	4 g/kg
Exposure time :	10 days

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Reproductive toxicity

Developmental toxicity/teratogenicity

One generation reproduction toxicity test

Parameter :	NOAEL(C) (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 295 mg/kg
Exposure time :	10 days

STOT-single exposure

STOT SE 1 and 2

Parameter :	NOAEL(C) (CITRIC ACID ; CAS No. : 77-92-9)
Exposure route :	Intraperitoneal
Species :	Rat
Effective dose :	250 mg/kg
Exposure time :	10 days

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Fish
Evaluation parameter :	Leuciscus Idus melanotus
Effective dose :	440 mg/l
Exposure time :	48 h

Parameter :	LC50 (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Daphnia
Evaluation parameter :	Daphnia Magna
Effective dose :	1535 mg/l
Exposure time :	24 h

Parameter :	LC50 (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Algae
Evaluation parameter :	Scenedesmus quadricauda
Effective dose :	425 mg/l
Exposure time :	168 h

Parameter :	LC50 (CITRIC ACID ; CAS No. : 77-92-9)
Species :	Bacteria
Evaluation parameter :	Pseudomonas Putida
Effective dose :	> 10000 mg/l
Exposure time :	16 h

Parameter :	LC50 (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Fish
Evaluation parameter :	Leuciscus Idus melanotus
Effective dose :	1 - 10 mg/l
Exposure time :	96 h

Chronic (long-term) fish toxicity

Parameter :	NOEC (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Fish
Effective dose :	0,1 - 1 mg/l

Acute (short-term) daphnia toxicity

Parameter :	EC50 (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Daphnia
Effective dose :	1 - 10 mg/l
Exposure time :	48 h

Acute (short-term) algae toxicity

Parameter :	EC50 (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Algae
Effective dose :	1 - 10 mg/l
Exposure time :	96 h

Bacteria toxicity

Parameter :	EC10 (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Species :	Bacteria toxicity
Evaluation parameter :	Microorganism/effects on activated sludge
Effective dose :	> 2500 mg/l
Exposure time :	17 h
Method :	DIN 38412 / part 8

Effects in sewage plants

Parameter :	Effects in sewage plants (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Inoculum :	Effects in sewage plants
Effective dose :	> 2500 mg/kg

12.2 Persistence and degradability

Biodegradation

Analytical method :	Biodegradation (CITRIC ACID ; CAS No. : 77-92-9)
Parameter :	Biodegradation
Degradation rate :	97 %
Time :	28 days
Evaluation :	Readily biodegradable (according to OECD criteria).
Analytical method :	BOD (% of ThOD) (CITRIC ACID ; CAS No. : 77-92-9)
Degradation rate :	= 526 mgO ₂ /g
Analytical method :	DOC reduction (CITRIC ACID ; CAS No. : 77-92-9)
Degradation rate :	= 728 mgO ₂ /g
Analytical method :	Biodegradation (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Parameter :	Biodegradation
Degradation rate :	> 90 %
Method :	OECD 303/ EEC 92/69/V, C10
Analytical method :	Biodegradation (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Parameter :	Biodegradation
Degradation rate :	> 60 %
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Analytical method :	DOC reduction (Poly(oxy-1,2-ethanediyl)alpatridecyl omega hydroxy branched ; CAS No. : 69011-36-5)
Degradation rate :	2595 mgO ₂ /g

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

The methods of waste management must be evaluated case by case, in relation to the composition of the waste itself, in light of the provisions of Community and national legislation in force. For handling and measures in the event of accidental spillage of waste, generally you can apply the guidance provided in paragraphs 6 and 7; caution and specific actions should however be evaluated in relation to the composition of the waste. The waste empty dirt containers must be placed in an area specifically identified for their collection, pending the launch for disposal. The area must be paved and equipped with a cover in order to prevent the washing away by atmospheric precipitation. The mixture, in case of such disposal which, under Directive 2008/98 / EC, can be disposed of physical chemical treatment facilities authorized, pursuant to national law, to withdraw the waste. IT IS NOT ALLOWED THE DISPOSAL BY THE DISCHARGE OF WASTEWATER.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

The hazard of the mixture has been determined in accordance with Reg. (EC) No. 1272/2008 [CLP] as amended. Material Safety Data Sheet according to Reg. (EC) 830/2015. The surfactants used in this blend are biodegradable in accordance with Regulation (EC) 648/2004. Labeling according to Reg. (EC) No. 1272/2008 [CLP]. Seveso Directive 2012/18/CE.

15.2 Chemical Safety Assessment

No safety assessment of the mixture was carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Composition 648/2004/CE · 04. Most important symptoms and effects, both acute and delayed

16.2 Abbreviations and acronyms

ADR:	Accord européen relative au transport international des marchandises dangereuses par route
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50
LC50:	Lethal Concentration 50
IC50:	Inhibitor Concentration 50
NOEL:	No Observed Effect Level
DNEL:	Derived No Effect Level
DMEL:	Derived Minimum Effect Level
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization

Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Règlement concernent le transport International ferroviaire des marchandises Dangereuses
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
UE:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	No data available.
N.A.:	Not applicable
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)

16.3 Key literature references and sources for data

None

16.4 Method of classification and valuation method used in accordance with Regulation (EC) 1272/2008 [CLP]

H318: Calculation method

16.5 Relevant H- and EUH-phrases (Number and full text)

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Dishwasher cleaner 2 in 1













INGREDIENTS SHEET

COMPONENT IUPAC	INCI NAME	CAS	Pharmacopea name
Water	AQUA	7732-18-5	aqua
citric acid	CITRIC ACID	77-92-9	acidum citricum
Isotridecanol ethoxylated	-	69011-36-5	-
sodium citrate	SODIUM CITRATE	6132-04-3	natrii citras
Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether	-	166736-08-9	-
-	Parfum	miscela	-
Dimethicone	DIMETHICONE	n.d	dimeticonum
1,2-Benzisothiazol-3(2H)-one	BENZISOTHIAZOLINONE	2634-33-5	-
2-Methyl-2H-isothiazol-3-one	METHYLISOTHIAZOLINONE	2682-20-4	-
Sodium 3,3'-(9,10-dioxoanthracene-1,4-diyldiimino) bis(2,4,6-trimethylbenzenesulphonate)	CI 61585	4474-24-2	-

Emergency telephone numbers

For urgent safety information call the Anti-Poison Center of your country:

	COUNTRY	CUSTOMER SERVICE NR.	ANTI-POISON CENTER NR.
	AUSTRIA	(0043) 050 6700 200	(0043) 01 406 43 43
	BELGIUM	0032 (0)2 263 33 33	(0032) 070 245 245
	CZECK REP.	(00420) 840 111 313	(00420) 224 91 54 02
	DENEMARK	(0045) 44880280	(0045) 82121212
	FINLAND	(09) 61336 235	(09) 471977
	FRANCE	(0033) 0892 700 150	(0033) 01 40 05 48 48
	GERMAN	(0049) 0711 93533655	(0049) 0761 19240
	GREECE	(0030) 2109946400	(0030) 2107793777
	HOLLAND	0031 (0)76 530 6400	(0031) 030 274 8888
	HUNGARY	(0036) 06 40 109 109	(0036) 80 20 11 99
	IRELAND	(00353) 0844 815 8989	(00353) 1 8092566
	ITALY	(0039) 199 580 480	(0039) 02 66101029
	NORWAY	(0047) 22782500	(0047) 22 59 13 00
	POLAND	(0048) 801 900 666	Warszawa: (0048) 22 619 66 54 Gdańsk: (0048) 58 682 04 04 Poznań: (0048) 61 847 69 46 Kraków: (0048) 12 411 99 99
	PORTUGAL	(00351) 707 203 204	(00351) 808 250143
	ROMANIAN	(0040) 0372 117 745	
	RUSSIA	007 (495)745 57 31	
	SLOVAKIA	(00421) 0850 003 007	(00421) 2 54774166
	SPAIN	(0034) 902 203 204	(0034) 915 620 420
	SWEDEN	(0046) 0771 751570	(0046) 08 331231
	SWISS	(0041) 0848 801 005	(0041) 145
	UK	(0044) 0844 815 8989	(0044) 0845 46 47 (0044) 020 7188 0600
	UCRAIN	(00380) 0 800 501 150	