

Product form

Product name Product code

Type of product

1.2.1. Relevant identified uses Industrial/Professional use spec

Use of the substance/mixture

Product group

LOVER LAUNDRY DETERGENT IRISTEYNS Safety Data Sheet

: LAUNDRY DETERGENT

For professional use only

: Cleaning/washing agents and additives

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Date first issue: 01/01/2012 Review date: 15/01/2021 Supersedes version of: 21/10/2019 Version: 8.0

Clover Chemicals L Clover House Macclesfield Road SK23 7DQ Whaley T 01663 733114 - F	nation available e supplier of the safety data shee td Bridge - United Kingdom	t		
	telephone number			
Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	e PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Servic (Birmingham Centre) City Hospital	e Dudley Road B18 7QH Birmingham	0344 892 0111	
No additional inform 2.2. Label eleme	nts ng to Regulation (EC) No. 1272/2008 [0			
		GHS05		
CLP Signal word	: Dar	: Danger		
Contains		: Sodium hydroxide; Fatty alcohol ethoxylate; C9-C11 alcohol, ethoxylated; Etidronic acid; Alcohols, C12-14, ethoxylated		
Hazard statements		: H318 - Causes serious eye damage.		
Precautionary state	ecautionary statements (CLP) : P102 - Keep out of reach of children. P280 - Wear eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remov contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.			
EUH-statements	and	H208 - Contains Mixture of: 5-chlor 2-methyl-2H -isothiazol-3-one [EC ction.		
15/01/2021 (Revision of	date)	EN (English)		1/

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

: Mixture

: Detergent

: Mixture

: Industrial

: 405

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

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2.3. Other hazards

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

Component	
Etidronic acid (2809-21-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty alcohol ethoxylate	(CAS-no) 160875-66-1 (Einecs nr) 605-233-7 (EG annex nr) /	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Eye Dam. 1, H318
C9-C11 alcohol, ethoxylated	(CAS-no) 68439-46-3 (Einecs nr) 500-446-0/614-482-0 (EG annex nr) 500-446-0/614-482-0	3 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Etidronic acid	(CAS-no) 2809-21-4 (Einecs nr) 220-552-8 (REACH-no) 01-2119510391-53	1 – 3	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318
Alcohols, C12-14, ethoxylated	(CAS-no) 68439-50-9 (Einecs nr) 931-014-3 (REACH-no) 01-2119487984-16	1 – 3	Eye Dam. 1, H318 Aquatic Acute 1, H400
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-no) 55965-84-9 (Einecs nr) 611-341-5 (EG annex nr) 613-167-00-5 (REACH-no) 01-2120764691-48	< 0.1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 (ATE=78 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=64 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-no) 55965-84-9 (Einecs nr) 611-341-5 (EG annex nr) 613-167-00-5 (REACH-no) 01-2120764691-48	(0.0015 ≤C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤C < 0.6) Eye Irrit. 2, H319 (0.06 ≤C < 0.6) Skin Irrit. 2, H315 (0.6 ≤C ≤ 100) Eye Dam. 1, H318 (0.6 ≤C ≤ 100) Skin Corr. 1C, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
: Wash skin with plenty of water.
: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
 both acute and delayed mild skin irritation. Red skin. Causes serious eye damage. redness, itching, tears. stinging.

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Acute effects oral route	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical att No additional information available	tention and special treatment needed
SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	: Water.
5.2. Special hazards arising from the substate Hazardous decomposition products in case of fire	
	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protectior

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.		

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up Methods for cleaning up : Soak up spills w

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, including an	ny incompatibilities
Storage conditions	: Keep container tightly closed.
Packaging materials	: polyethylene. stainless steel.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available **8.2. Exposure controls**

8.2.1. Appropriate engineering controls

No additional information available

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8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection:

Wear rubber gloves

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chem Physical state	ical properties : Liquid
Colour	: Blue. Green.
Physical state/form	: Liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: 0 °C
Freezing point	: Not available
Boiling point/Boiling range	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 9.5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 350 cP at 20 °C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.052
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable

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Particle dustiness	: Not applicable
9.2. Other information	
9.2.1. Information with regard to physical structure information available	sical hazard classes
9.2.2. Other safety characteristics VOC content	: 0 g/l
SECTION 10: Stability and rea 10.1. Reactivity No additional information available	activity
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous rea No dangerous reactions known under n	
10.4. Conditions to avoid No additional information available	
10.5. Incompatible materials No additional information available	
10.6. Hazardous decomposition fume. Carbon monoxide. Carbon dioxid	
SECTION 11: Toxicological in	formation
11.1. Information on hazard class Acute toxicity (oral)	ses as defined in Regulation (EC) No 1272/2008 : Not classified
Acute toxicity (dermal)	: Not classified

Fatty alcohol ethoxylate (160875-66-1)		
LD50 oral rat > 300 (300 - 2000) mg/kg		
LD50 dermal rat	> 2000 mg/kg	

C9-C11 alcohol, ethoxylated (68439-46-3)			
LD50 oral rat ≥ 2 mg/kg			
Etidronic acid (2809-21-4)			
LDE0 and not			

LD50 oral rat	1878 mg/kg
LD50 dermal rabbit	> 6000 mg/kg

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)	
LD50 oral rat	64 mg/kg
LD50 dermal rat	87.12 mg/kg
LD50 dermal rabbit	78 mg/kg
LC50 Inhalation - Rat	0.33 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 9.5
Serious eye damage/irritation	: Causes serious eye damage. pH: 9.5
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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	5 ()
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
11.2.2 Other information	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term	: Not classified

Fatty alcohol ethoxylate (160875-66-1)	
EC50 - Crustacea [1]	> 10 mg/l
ErC50 algae	> 10 mg/l
NOEC chronic fish	> 1 mg/l

C9-C11 alcohol, ethoxylated (68439-46-3)	
LC50 - Fish [1]	1 – 10 mg/l
EC50 - Crustacea [1]	1 – 10 mg/l

Etidronic acid (2809-21-4)	
LC50 - Fish [1]	360 mg/l
EC50 - Crustacea [1]	527 mg/l

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

0.19 mg/l Rainbow trout
zonnebaars
0.16 mg/l
0.126 mg/l waterflea
0.003 mg/l
0.027 mg/l
0.003 mg/l Skeletonema costatum
0.018 mg/l selenastrum capricornutum
0.05 mg/l
0.1 mg/l

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NOEC chronic algae	0.0014 mg/l	
12.2. Persistence and degradability		
LAUNDRY DETERGENT		
Persistence and degradability	Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	
Fatty alcohol ethoxylate (160875-66-1)		
Persistence and degradability	Biodegradable.	
C9-C11 alcohol, ethoxylated (68439-46-3)		
Biodegradation	≥ 90 %	
12.3. Bioaccumulative potential		
LAUNDRY DETERGENT		
Bioaccumulative potential	No bioaccumulation.	
Fatty alcohol ethoxylate (160875-66-1)		
Bioaccumulative potential	No bioaccumulation.	
Etidronic acid (2809-21-4)		
Bioaccumulative potential	not bioaccumulative.	
Mixture of: 5-chloro-2-methyl-4-isothiazolin- 6] (3:1) (55965-84-9)	3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-	
Log Pow	0.4	
12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment		
LAUNDRY DETERGENT		
This substance/mixture does not meet the PBT criteria	a of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Component		
Etidronic acid (2809-21-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
 12.6. Endocrine disrupting properties No additional information available 12.7. Other adverse effects Additional information 	: Avoid release to the environment.	
SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Waste / unused products	: Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment.	
SECTION 14: Transport information In accordance with ADR / IMDG / IATA		
ADB		

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
Not regulated	Not regulated	Not regulated

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14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content

: 0 g/l

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	%
non-ionic surfactants	5-15%
phosphonates	<5%
optical brighteners	
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16
	December 2008 on classification, labelling and packaging of substances and mixtures, amending and
	repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2

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Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Dam. 1

H318

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.