



MATERIAL SAFETY DATA SHEET

Section 1 Product Identification

1.1	Product Name: method clementine washing up liquid
1.2	Chemical Name
1.3	Article number and barcode: 30226815 and 817939012253
1.4	
1.5	Product use: Ultra grease-fighting + biodegradable washing up liquid
1.6	Supplier's Name: ECOVER CO-ORDINATION CENTER
1.7	Supplier's Address: Steenovenstraat 1A, 2390 Malle Belgium
1.8	Emergency Phone: 03451302230
1.9	Other; internal code 3000622

Section 2 Hazard Identification

2.1	Hazard Identification: Eye Irrit. 2 H319 (According to Regulation (EC) n° 1272/2008 (CLP))						
2.2	Routes of entry	Inhalation		Absorption		Ingestion	
2.3	Effects of exposure Ingestion: Eyes: None under normal use; If in eyes causes serious eye irritation Skin: Inhalation:						
2.4	Symptoms of Over exposure Ingestion: Eyes: If in eyes causes serious eye irritation Skin: Inhalation:						
2.5	Acute Health Effects Ingestion: Eyes: If in eyes causes serious eye irritation Skin: Inhalation:						
2.6	Chronic Health Effects						
2.7	Target organs; eyes - irritant						
2.8	Toxicological Properties						
NA= Not Available ND= Not Determined NE= Not Established NF = Not Found C= Ceiling Limit							



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Section 3 Composition & Ingredient Information

Chemical Name(s)	CAS No.	RTECs No.	EINECS No.	%	Exposure Limits in Air (mg/m ²)										
					ACGIH		NOHSC			OSHA			Other		
					ppm		ppm			ppm					
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	TLV	STEL	IDLH	Classification EC 1272/2008		
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8		287-809-4	5-10											Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1		500-220-1	1-5											Eye Dam 1 (H318)
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9		600-975-8	1-5											Eye Dam.1 (H318) Skin Irrit. 2 (H315)
Ethanol	64-17-5		200-578-6	1-5											Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)
Cocamidopropyl betaine	61789-40-0		263-058-8	1-5											Eye Irrit. 1 (H318) Aquatic chronic 3 (H412)
(R)-p-mentha-1,8-diene	5989-27-5		227-813-5	0.1-0.25											Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)

Section 4 First Aid Measures

4.1	<p>Frist Aid:</p> <p>Ingestion: Do NOT induce vomiting. Clean mouth with water and drink plenty of water. Get medical attention</p> <p>Eyes: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice</p> <p>Skin: Wash off immediately with plenty of water.</p> <p>Inhalation: Remove to fresh air.</p>
4.2	Medical Conditions aggravated by expose:

5. Firefighting Measures

5.1	Flashpoint & method: 60-100°C				
5.2	Auto-ignition Temperature:				
5.3	Flammability limits	Lower explosive limit (LEL)		Upper explosive limit (UEL)	
5.4	Extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment				
5.5	Firefighting Procedures: in the event of fire, wear self-contained breathing apparatus. Wear suitable protective clothing and gloves				
Additional information: Fight fire with normal precautions from a reasonable distance					



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Section 6. Accidental release measures

6.1	Spills: Recover usable material in a clean closable container for reuse. Sweep up contaminated material and dispose of as chemical waste. Remove the remainder with water.
6.2	Any other forms of release: Avoid release to the environment.

Section 7. Handling & storage information

7.1	Work & Hygiene practices:
7.2	Storage & handling: Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place. Do not store <0°C and >40°C.
7.3	Special precautions: Ensure adequate ventilation, especially in confined areas Avoid contact with eyes. Use personal protection recommended in Section 8
7.4	Additional information:

Section 8. Exposure controls & personal protection

8.1	Ventilation & engineering controls: None under normal use conditions.
8.2	Respiratory protection
8.3	Eye protection: Wear safety goggles when clearing accidentally released material.
8.4	Hand protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

8.5	Body protection	HEALTH		
		FLAMMABILITY		
		PHYSICAL HAZARDS		
		SPECIAL EQUIPMENT		

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<h3>Section 9. Physical & chemical properties</h3>	

9.1	Density	1.03 kg/l
9.2	Boiling point	
9.3	Melting point	
9.4	Evaporation rate	
9.5	Vapour pressure	
9.6	Molecular weight	
9.7	Appearance & colour	Liquid; orange
9.8	Odour threshold	Citrus fruits
9.9	Solubility	
9.10	pH	8
9.11	Viscosity	
9.12	Other information	VOC (%): 3.14


Section 10. Stability & reactivity

10.1	Stability: Stable under normal conditions.
10.2	Hazardous Decomposition products: None under normal use conditions.
10.3	Hazardous polymerization
10.4	Conditions to avoid: See section 7 for more information
10.5	Incompatible substances: Do not mix with other cleaning products.

Section 11. toxicological information

11.1	Toxicity data: Mixture:	
11.2	Acute toxicity: Product does not present an acute toxicity hazard based on known or supplied information	
11.3	Chronic toxicity	
11.4	Suspected toxicity	
11.5	Reproductive toxicity: No known effect.	
	Mutagenicity	No known effect.
	Embryo toxicity	No known effect.
	Teratogenicity	No known effect.

	Reproductive toxicity	No known effect.
11.6	Irritancy of product: Causes serious eye irritation	
11.7	Biological exposure indices	
11.8	Physician recommendations	
11.9	Additional information	

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<h3>Section 12. Ecological information</h3>	

12.1	<p>Environmental stability</p> <p>This product doesn't contain any persistent substances</p> <p>The surface active components used in this product fulfill all of the biodegradability requirements of EC regulation 648/2004 (Detergents Regulation)</p> <p>The surface active components used in this product are anaerobically biodegradable.</p>
12.2	Effect on plants & animals
12.3	Effect on aquatic life

Section 13. Disposal consideration

13.1	Waste Disposal: Disposal should be in accordance with applicable regional, national and local laws and regulations
13.2	Special Considerations

Section 14. Transportation information

The basic description (ID number, proper shipping name, hazard class & division, packing group) is shown for each mode of transport. Additional descriptive information may be required by 49 CFR. IATA/ICAO, IMDG, TDGR, SCT and ADGR	
14.1	49 CFR (GND)
14.2	IATA (AIR)
14.3	IMDG (OCN)
14.4	TDGR (Canadian GND)
14.5	ADR/RID (EU)
14.6	Mexico (SCT)
14.7	ADGR (AUS)

Section 15. regulatory information

15.1	U.S EPA SARA reporting requirements
15.2	U.S EPA SARA Threshold planning quantity
15.3	U.S EPA TSCA Inventory Status

15.4	U.S EPA CERCLA reportable quantity (RQ)
15.5	Other U.S Federal Requirements
15.6	Other regulations
15.7	U.S State regulatory Information
15.8	67/548/EEC (European Union) and Australia NOHSC:2011 (2003) requirements

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Section 16. Other information

16.1	<p>Other information:</p> <p>H318 - Causes serious eye damage H315 - Causes skin irritation H400 - Very toxic to aquatic life H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects H226 - Flammable liquid and vapor H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation H304 - May be fatal if swallowed and enters airways</p>
16.2	Terms & definitions: Please refer to last page.
16.3	<p>Disclaimers: 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.</p>
16.4	Prepared for:
16.5	<p>Company full address:</p> <p>ECOVER CO-ORDINATION CENTER Steenovenstraat 1A 2390 Malle Belgium</p>



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Definitions of terms

A large number of abbreviation and acronyms appear on a MSDS. Some of these that are commonly used include the following:

General information

CAS No.	Chemical abstract service number
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Exposure limits in the air

ACGIH	American conference on governmental industrial hygienists
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TLV	Threshold limit value
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OSHA	U.S occupational safety and health administration
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PEL	Permissible exposure limit
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IDLH	Immediately dangerous to life and health
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Frist Aid measures

CPR	Cardiopulmonary resuscitation- method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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Hazardous materials identification systems: HMISH

Health, Flammability & reactivity ratings













			Hazard rating
0	Minimal Hazard		
1	Slight Hazard	HEALTH	
2	Moderate Hazard	FLAMMABILITY	
3	Severe Hazard		

4	Extreme Hazard	PHYSICAL HAZARDS	
		Personal Protection	
Personal Protection Ratings:			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P for special handling directions.

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Personal Protection ratings:


										
Safety glasses	Gloves	Face shield & eye protection	Splash goggles	Synthetic Apron	Full suit	Boots	Airline Hood/mask	Full face respirator	Vapor respirator	Dust & vapor respirator
		Note: The dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.								

Flammability limits in air	
Auto ignition temperature	Minimum temperature required to initiate combustion in air with no other source of ignition.
LEL	Lower explosive limit- lowest percent of vapour in air, by volume that will explode or ignite in the presence of an ignition source.

UEL	Upper explosive limit- highest percent of vapour in air, by volume, that will explode or ignite in the presence of an ignition source.
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Other Standard abbreviations:

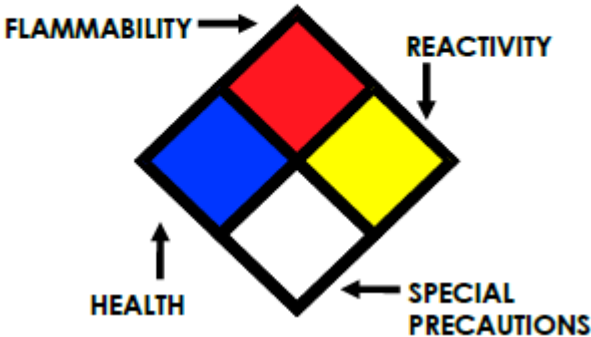
NA	Not available
NR	No results
NE	Not established
NF	Not found
ND	Not determined
ML	Maximum limit
SCBA	Self- contained breathing apparatus

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<h3>Definitions of terms</h3>	

A large number of abbreviation and acronyms appear on a MSDS. Some of these that are commonly used include the following:

National fire protection association: NFPA

Hazard ratings

0	Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
W_	Use no water	
OX	Oxidizer	

Toxicological information









LD 50	Lethal dose (solids & liquids) which kills 50% of the exposed animals
LC 50	Lethal concentration (gases) which kills 50% of the exposed animals
ppm	Concentration expressed in parts of material per million parts
TD 10	Lowest dose to cause a symptom

TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀ & LD₀ or TC, TC₀, LC₁₀, & LC₀	Lowest dose (or Concentration) to cause lethal or toxic effects
IARC	International agency for research on cancer
NTP	National toxicology program
RTECS	Registry of toxic effect chemical substances
BCF	Bio concentration factor
TL_m	Median threshold limit
Log K_{ow} or Log K_{oc}	Coefficient of oil/water distribution









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Definitions of terms	

A large number of abbreviation and acronyms appear on a MSDS. Some of these that are commonly used include the following:

Regulatory information	
CPR	Canada's controlled product regulations
DOT	U.S. Department of transport
EPA	U.S Environmental protection agency
EU	European Union (European union directive 67/548/EEC)
DSL	Canadian domestic substance list
MAK	Mandat und die arbeitsweise der commission (work ares commission)
NDSL	Canadian non- domestic substance list
NOHSC	National occupational health & safety code (Australia)
PSL	Canadian Priority substances list
TC	Transport Canada
TSCA	U.S toxic substance control act
WHMIS	Canadian workplace hazardous material information system

EC Information							
							
C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

WHMIS Information

							
A	B	C	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive