

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

1.1. Product identifier

Product form : Mixture
Product name : VIROSOL
Product code : 326
Type of product : Detergent
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Cleaner

Degreaser

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ManufacturerSupplierClover Chemicals LtdChristeyns NVClover House Macclesfield RoadAfrikalaan 182SK23 7DQ Whaley Bridge – Derbyshire9000 GENTUnited KingdomBelgium

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1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	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 Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

GHS05

CLP Signal word : Dange

Contains : Isotridecanol, ethoxylated; Fatty alcohol ethoxylate Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P260 - Do not breathe spray.

P280 - Wear protective gloves, eye protection.

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

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P314 - Get medical advice/attention if you feel unwell.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing.

: EUH208 - Contains D-Limonene. May produce an allergic reaction.

2.3. Other hazards

EUH-statements

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
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Isotridecanol, ethoxylated (69011-36-5)	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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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]
Isotridecanol, ethoxylated	CAS-no: 69011-36-5 REACH-no: polymer	3 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Fatty alcohol ethoxylate	CAS-no: 160875-66-1 Einecs nr: 605-233-7 REACH-no: Exempted (polymer)	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium hydroxide substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, PL, PT, SE, SK, IS, NO, CH)	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	< 1	Met. Corr. 1, H290 Skin Corr. 1A, H314
D-Limonene	CAS-no: 5989-27-5 Einecs nr: 227-813-5 EG annex nr: 601-096-00-2	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Sodium hydroxide	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures

General advice

[:] Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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Inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat

with constricting sensation of the larynx and difficulty in breathing.

Acute effects skin : Causes skin irritation. Red skin.

Acute effects eyes : Causes serious eye damage. redness, itching, tears. Risk of serious damage to eyes.

Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal

pain, nausea.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : fume. 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 protection.

SECTION 6: Accidental release measures

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. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Keep container closed when not in use.

Incompatible products : Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

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

Sodium hydroxide (1310-73-2)		
Ireland - Occupational Exposure Limits		
Local name	Sodium hydroxide	

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Sodium hydroxide (1310-73-2)		
OEL STEL	2 mg/m³	
Regulatory reference Chemical Agents Code of Practice 2021		
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL (OEL STEL)	2 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Chemical goggles or safety glasses

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing

Hand protection:

PVC gloves. butyl rubber gloves. nitrile rubber gloves. VITON gloves. neoprene gloves. Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Not required

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 chemical properties

Physical state : Liquid
Colour : Orange.
Physical state/form : Liquid.

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Odour : Citrus fruits. pleasant odour.

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 explosion limit : Not available : Not available Upper explosion limit Flash point · Not available Autoignition temperature : Not available Decomposition temperature : Not available : 12.5 - 14 pН

Solubility : Soluble in water. Soluble in ethanol.

: Not available

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 : 1.018

Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

Viscosity, kinematic

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Isotridecanol, ethoxylated (69011-36-5) ATE CLP (oral) 500 mg/kg bodyweight Fatty alcohol ethoxylate (160875-66-1) LD50 oral rat > 300 (300 – 2000) mg/kg LD50 dermal rat > 2000 mg/kg ATE CLP (oral) 300 mg/kg bodyweight

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D-Limonene (5989-27-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
Skin corrosion/irritation	: Causes severe skin burns.	
	pH: 12.5 – 14	
Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 12.5 – 14	
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	

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

No additional information available

11.2.2. Other information

Potential adverse human health effects and : Based on available data, the classification criteria are not met

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

: Not classified

(chronic)

Hazardous to the aquatic environment, long-term : Not classified

Not rapidly degradable

Not rapidly degradable			
Sodium hydroxide (1310-73-2)			
LC50 - Fish [1]	> 35 mg/l		
EC50 - Crustacea [1]	40.4 mg/l (Ceriodaphnia)		
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea		
Fatty alcohol ethoxylate (160875-66-1)			
EC50 - Crustacea [1]	> 10 mg/l		
ErC50 algae	> 10 mg/l		
NOEC chronic fish	> 1 mg/l		
D-Limonene (5989-27-5)	D-Limonene (5989-27-5)		
LC50 - Fish [1]	720 μg/l Test organisms (species): Pimephales promelas		
LC50 - Fish [2]	702 μg/l Test organisms (species): Pimephales promelas		
EC50 - Crustacea [1]	0.307 mg/l Test organisms (species): Daphnia magna		
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1] 0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous na Raphidocelis subcapitata, Selenastrum capricornutum)			

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D-Limonene (5989-27-5)			
EC50 72h - Algae [2]	0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)		
12.2. Persistence and degradability			
VIROSOL			
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.		
Sodium hydroxide (1310-73-2)			
ersistence and degradability Not applicable.			
Fatty alcohol ethoxylate (160875-66-1)			
Persistence and degradability	Biodegradable.		

12.3. Bioaccumulative potential		
VIROSOL		
No bioaccumulation.		
Sodium hydroxide (1310-73-2)		
-3.88		
No bioaccumulation.		
Fatty alcohol ethoxylate (160875-66-1)		
No bioaccumulation.		

12.4. Mobility in soil

No additional information available

12.5. Results of PB1 and VPVB assessment			
VIROSOL			
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			
Isotridecanol, ethoxylated (69011-36-5) 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

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products : Avoid release to the environment.

HP Code : HP8 - "Corrosive:" waste which on application can cause skin corrosion.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA	
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	

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ADR	IMDG	IATA		
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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Allergenic fragrances > 0.01 %:

D-Limonene

Labelling of contents		
Component	%	
non-ionic surfactants	5-15%	
anionic surfactants, amphoteric surfactants	<5%	
perfumes		
D-LIMONENE		

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
EUH208	Contains D-Limonene. May produce an allergic reaction.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H226	Flammable liquid and vapour.		
H290	May be corrosive to metals.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
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.		
H400	Very toxic to aquatic life.		
H412	Harmful to aquatic life with long lasting effects.		
Met. Corr. 1	Corrosive to metals, Category 1		
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1B	Skin sensitisation, category 1B		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Skin Corr. 1	H314	On basis of test data	
Eye Dam. 1	H318	On basis of test data	

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.