



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier.

Product identifier. 117035 UK
Product name. Formula 161 Biosolv
Pure substance/mixture. No Information

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

Recommended Use. Professional Carpet Cleaning
Uses advised against. Professional Use Only

1.3 Details of the supplier of the safety data sheet.

Supplier. Legend Brands
15180 Josh Wilson Road
Burlington, WA 98233
E-Mail: sds@legendbrands.com
800-932-3030

Legend Brands Europe
22 Plover Close Interchange Park
Newport Pagnell MK069PS UK
+44 (0) 1908 611211

1.4 Emergency telephone number. INFOTRAC 1-800-535-5053 (North America)
+1-352-323-3500 (International)

Europe 112
Austria +43 1 406 43 43
Belgium Poison center (BE): +32 70 245 245
Denmark Poison Control Hotline (DK): +45 82 12 12 12
Finland Poison Information Centre (FI): +358 9 471 9773
France ORFILA (FR): + 01 45 42 59 59
Germany Poison Center Berlin (DE): +49 030 30686 790
Poison Center Nord: +49 551 19240(24h available English / German)
Ireland National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566
Iceland +354 543 2222
Italy Poison Center, Milan (IT): +39 02 6610 1029
Luxemborg 112
Netherlands National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available To health professionals)
Norway Poisons Information (NO): + 47 22 591300
Portugal Poison Information Center (PT): +351 800 250 250
Spain Poison Information Service (ES): +34 91 562 04 20
Sweden Poisons Information Center (SV): +46 8 33 12 31
Switzerland Poison Center: Tel 145; +41 44 251 51 51
United Kingdom 111 / 0300 020 0155

2. Hazards Identification

2.1 Classification of the substance or mixture. (Regulation (EC) No 1272/2008)

Allergic effects
Hazardous to the aquatic environment, Chronic, category 2

2.2 Label elements.

**Signal Word**

Non-hazardous ingredients

Hazardous components which must be listed on the label

No Named Chemicals exist in this product

Possible Hazards

< 1% of the mixture consists of ingredient(s) of unknown acute toxicity

HAZARD STATEMENTS

EUH208 Contains D-limonene. May produce an allergic reaction.
 H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P273 Avoid release to the environment.
 P391 Collect spillage.
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

EMERGENCY OVERVIEW: No Information

3. Composition/Information on Ingredients

3.1 Substances.

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures.

CAS-No.	EC No.	REACH Reg No.	Wt. %	Chemical Name	Classification (1272/2008/EC)
68439-57-6	270-407-8	No Information	2.5-10	SODIUM (C14-16) OLEFIN SULFONATE	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
29911-28-2	249-951-5	No Information	2.5-10	Dipropylene Glycol Butyl Ether	Eye Irrit. 2A (H319)
7758-29-4	231-838-7	No Information	1.0-2.5	SODIUM TRIPOLYPHOSPHATE	No information
68603-42-9	271-657-0	No Information	1.0-2.5	COCAMIDE DEA	Aquatic Chronic 2 (H411)
5989-27-5	227-813-5	No Information	< 1.0	D-limonene	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
56-81-5	200-289-5	01-2119471987-18-xxxx	< 1.0	propane-1,2,3-triol	No information

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First-aid Measures

4.1 Description of first-aid measures.**General advice.**

Call a physician if irritation develops or persists. When symptoms persist or in all cases of doubt seek medical advice.

Inhalation.

Move to fresh air.

Skin contact.

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.

Eye contact.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present.

Ingestion.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Gently wipe or rinse the inside of the mouth with water.

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

Symptoms

See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

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

Notes to physician

Treat symptomatically.

5. Fire-fighting Measures

5.1 Extinguishing media.

Suitable extinguishing media.

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

No Information

Extinguishing media which shall not be used for safety reasons.

High volume water jet.

5.2 Special hazards arising from the substance or mixture.

No information available.

5.3 Advice for firefighters.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Use personal protection recommended in Section 8.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures.

Personal precautions.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe vapors or spray mist.

Advice for emergency responders.

Use personal protection recommended in Section 8.

6.2 Environmental precautions.

Prevent product from entering drains. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up.

Methods for Containment.

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

Methods for cleaning up.

Use personal protective equipment as required.

6.4 Reference to other sections

See section 8 for more information.

7. Handling and Storage

7.1 Precautions for safe handling.

Advice on safe handling.

Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures.

See section 7 for more information.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Conditions.

Keep containers tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Specific use(s)

No Information

Exposure scenario

No Information Available

8. Exposure Controls/Personal Protection**8.1 Control parameters****Exposure Limit Values**

Chemical Name	Austria	Belguim	Denmark	European Union	Finland	France
D-limonene 5989-27-5					STEL: 50 ppm STEL: 280 mg/ m ³ TWA: 25 ppm TWA: 140 mg/m ³	
propane-1,2,3- triol 56-81-5		TWA: 10 mg/m ³			TWA: 20 mg/m ³	TWA: 10 mg/m ³
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
D-limonene 5989-27-5	STEL: 20 ppm STEL: 112 mg/ m ³ TWA: 5 ppm TWA: 28 mg/m ³					
propane-1,2,3- triol 56-81-5	STEL: 400 mg/ m ³ TWA: 200 mg/m ³					
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	UK
D-limonene 5989-27-5	STEL: 37.5 ppm STEL: 175 mg/ m ³ TWA: 25 ppm TWA: 140 mg/m ³		TWA: 30 ppm TWA: 168 mg/m ³		STEL: 14 ppm STEL: 80 mg/m ³ TWA: 7 ppm TWA: 40 mg/m ³	
propane-1,2,3- triol 56-81-5		TWA: 10 mg/m ³	TWA: 10 mg/m ³		STEL: 100 mg/ m ³ TWA: 50 mg/m ³	STEL: 30 mg/m ³ TWA: 10 mg/m ³

TWA: Time weighted average

STEL: Short term exposure limit

Derived No Effect Level (DNEL)

No Information Available

Predicted No Effect Level (PNEC)

No Information Available

8.2. Exposure controls.**Engineering Measures.**

Showers, eyewash stations, and ventilation systems.

Personal protective equipment.**Eye/Face Protection.**

Safety glasses with side-shields.

Hand Protection.

Wear suitable protective clothing.

Skin and body protection.

No Information

Respiratory protection.

In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures.

See section 7 for more information.

Environmental Exposure Controls.

No Information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Physical state	Liquid
Appearance	Clear
Colour	Yellow
Odour	Ammonia
Odour Threshold	No Information
pH	9.2-9.8
Melting point / freezing point (°C)	No Information
Flash Point, (°C)	94
Boiling point/range (°C)	100 - 1,412
Evaporation rate	Faster than Diethyl Ether
Combustibility	Does not Support Combustion
Upper/lower flammability or explosive limits	No Information
Vapour Pressure	No Information
Vapour density	No Information
Specific Gravity (g/cm ³)	1.050
Solubility in / Miscibility with Water	No Information
Partition Coefficient: n-octanol/water	No Information
Auto-Ignition Temperature (°C)	No Information
Decomposition temperature (°C)	No Information
Viscosity	No Information
Oxidising properties	Not Applicable

9.2 Other information.

Volatile Organic Compounds (VOC) content	<10%
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(See section 16 for abbreviation legend)

10. Stability and Reactivity

10.1 Reactivity.

Stable under normal conditions.

10.2 Chemical stability.

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions.

None known based on information supplied.

10.4 Conditions to Avoid.

None known.

10.5 Incompatible Materials.

None known based on information supplied.

10.6 Hazardous Decomposition Products.

None known.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Product Information

LD50 Oral N.I.	LD50 Dermal 99,181.00	LC50 Inhalation N.I.
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The following values are calculated based on chapter 3.1 Of the GHS document

ATEmix (oral)	0.0 mg/kg	
ATEmix (dermal)	99,181.0 mg/kg	
ATEmixInhalation	ATEmixInhalation	

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
68439-57-6	SODIUM (C14-16) OLEFIN SULFONATE	2220 mg/kg Rat	6300	N.I.
68603-42-9	COCAMIDE DEA	>10000	N.I.	N.I.
5989-27-5	D-limonene	5200 mg/kg, 4400 mg/kg Rat	>5000 mg/kg Rabbit	N.I.
56-81-5	propane-1,2,3-triol	12600 mg/kg Rat	>10000 mg/kg Rabbit	N.I.

N.I. = No Information

Skin corrosion/irritation.

SKIN IRRITANT.

12. Ecological Information

12.1 Toxicity

2.23% of the mixture consists of ingredient(s) of unknown aquatic toxicity

Ecotoxicity Effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	-	LC50 96 h Brachydanio rerio 1.0 - 10.0 mg/L, LC50 96 h Brachydanio rerio 12.2 mg/L	-
Dipropylene Glycol Butyl Ether 29911-28-2	-	LC50 96 h Poecilia reticulata 841 mg/L	-
COCAMIDE DEA 68603-42-9	-	LC50 96 h Brachydanio rerio 3.6 mg/L	-
D-limonene 5989-27-5	-	LC50 96 h Pimephales promelas 0.619 - 0.796 mg/L, LC50 96 h Oncorhynchus mykiss 35 mg/L	-
TETRASODIUM EDTA 64-02-8	EC50 72 h Desmodemus subspicatus 1.01 mg/L	LC50 96 h Lepomis macrochirus 41 mg/L, LC50 96 h Pimephales promelas 59.8 mg/L	-
Alcohols, C12-14-secondary, ethoxylated 84133-50-6	-	LC50 96 h Pimephales promelas 3.2 mg/L	EC50 48 h water flea 3.2 mg/L
propane-1,2,3-triol 56-81-5	-	LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L	-
Diethanolamine 111-42-2	EC50 72 h Desmodemus subspicatus 7.8 mg/L, EC50 96 h Pseudokirchneriella subcapitata 2.1 - 2.3 mg/L	LC50 96 h Pimephales promelas 4460 - 4980 mg/L, LC50 96 h Pimephales promelas 1200 - 1580 mg/L, LC50 96 h Lepomis macrochirus 600 - 1000 mg/L	EC50 48 h Daphnia magna 55 mg/L
Sodium 2-Mercaptobenzothiazole 2492-26-4	EC50 96 h Pseudokirchneriella subcapitata 0.3 mg/L	LC50 96 h Oncorhynchus mykiss 0.3 - 1.1 mg/L, LC50 96 h Lepomis macrochirus 3.8 mg/L	EC50 48 h Daphnia magna 1.9 - 5.1 mg/L
Sodium hydroxide 1310-73-2	-	LC50 96 h Oncorhynchus mykiss 45.4 mg/L	-

TRISODIUM NTA 5064-31-3	-	LC50 96 h Pimephales promelas 93 - 170 mg/L, LC50 96 h Lepomis macrochirus 175 - 225 mg/L, LC50 96 h Lepomis macrochirus 252 mg/L, LC50 96 h Pimephales promelas 470 mg/L, LC50 96 h Oryzias latipes 560 - 1000 mg/L, LC50 96 h Oryzias latipes 560 - 1000 mg/L, LC50 96 h Oncorhynchus mykiss 72 - 133 mg/L, LC50 96 h Poecilia reticulata 560 - 1000 mg/L, LC50 96 h Poecilia reticulata 560 - 1000 mg/L, LC50 96 h Pimephales promelas 114 mg/L	LC50 48 h Daphnia magna 560 - 1000 mg/L
METHANOL 67-56-1	-	LC50 96 h Pimephales promelas 28200 mg/L, LC50 96 h Pimephales promelas >100 mg/L, LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L, LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L, LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L	-
a-Pinene 80-56-8	-	LC50 96 h Pimephales promelas 0.28 mg/L	LC50 48 h Daphnia magna 41 mg/L
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	EC50 72 h Pseudokirchneriella subcapitata 0.11 - 0.16 mg/L, EC50 96 h Pseudokirchneriella subcapitata 0.03 - 0.13 mg/L	LC50 96 h Oncorhynchus mykiss 1.6 mg/L	EC50 48 h Daphnia magna 4.71 mg/L, EC50 48 h Daphnia magna 0.12 - 0.3 mg/L, EC50 48 h Daphnia magna 0.71 - 0.99 mg/L
Magnesium Chloride 7786-30-3	EC50 72 h Pseudokirchneriella subcapitata >82.7 mg/L	LC50 96 h Pimephales promelas 1970 - 3880 mg/L	EC50 48 h Daphnia magna 140 mg/L
Styrene monomer 100-42-5	EC50 72 h Pseudokirchneriella subcapitata 1.4 mg/L, EC50 96 h Pseudokirchneriella subcapitata 0.72 mg/L, EC50 72 h Pseudokirchneriella subcapitata 0.46 - 4.3 mg/L, EC50 96 h Pseudokirchneriella subcapitata 0.15 - 3.2 mg/L	LC50 96 h Pimephales promelas 3.24 - 4.99 mg/L, LC50 96 h Lepomis macrochirus 19.03 - 33.53 mg/L, LC50 96 h Pimephales promelas 6.75 - 14.5 mg/L, LC50 96 h Poecilia reticulata 58.75 - 95.32 mg/L	EC50 48 h Daphnia magna 3.3 - 7.4 mg/L

12.2. Persistence and degradability.

No data are available on the product itself

12.3. Bioaccumulative potential.

Discharge into the environment must be avoided.

CAS-No.

56-81-5

Chemical Name

propane-1,2,3-triol

Bio. Conc. Factor (BCF)

N.I.

Octanol-water par. Coeff (KOW)

-1.76

12.4 Mobility in soil.**Mobility in soil.**

No information available

Mobility

No information available

12.5 Results of PBT and vPvB assessment.

No data are available on the product itself

12.6 Other adverse effects.

No information available

13. Disposal Considerations**13.1 Waste treatment methods.****Waste from residues /unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

No Information

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

14. Transport Information**ADR**

14.1 UN number:	No Information
14.2 Proper shipping name:	No Information
14.3 Hazard class(es):	No Information
14.4 Packing group:	No Information
14.5 Environmental hazards:	No Information
14.6 Special provisions:	No Information

IMDG

14.1 UN number:	No Information
14.2 Proper shipping name:	No Information
14.3 Hazard class(es):	No Information
14.4 Packing group:	No Information
14.5 Marine pollutant:	No Information
Environmental hazards:	No Information
14.6 Special provisions:	No Information
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	No Information

IATA

14.1 UN number:	No Information
14.2 Proper shipping name:	No Information
14.3 Hazard class(es):	No Information
14.4 Packing group:	No Information
14.5 Environmental hazards:	No Information
14.6 Special provisions:	No Information

15. Regulatory Information**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National regulatory information**

German WGK classification: 3

Remarks: WGK 0 = in general not a water pollutant
 WGK 1 = weak water pollutant
 WGK 2 = water pollutant
 WGK 3 = severe water pollutant

CAS/Chemical NameFrench RG number Title

5989-27-5	D-limonene	RG 84	Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table). Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
67-56-1	METHANOL	RG 84	Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table). Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
100-42-5	Styrene monomer	RG 84	Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table). Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them

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

Persistent Organic Pollutants

Not applicable

Authorizations (Annex XIV) and/or restrictions on use (Annex XVII), Regulation (CE) 1907/2006

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Annex XIV Authorisation List</u>	<u>Annex XVII Restricted list</u>
	Not applicable		

EU Substances of Very High Concern

<u>CAS-No.</u>	<u>Chemical Name</u>
	No items on this list exist.

International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	-
ENCS	-
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL	Canadian Domestic Substances List.
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AICS	Australian Inventory of Chemical Substances.
NZIoC	New Zealand Inventory of Chemicals.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

16. Other Information

Revision Date	4/13/2021	Supersedes Date	New MSDS
Reason for revision	No Information		

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006