



# Safety Data Sheet

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

### 1.1 Product identifier.

Product identifier. 123372/123373

Product name. Formula 90, 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)

Acute Toxicity, Oral, category 4  
Hazardous to the aquatic environment, Chronic, category 3  
Eye Irritation, category 2A  
Skin Sensitizer, category 1

### 2.2 Label elements.

**Signal Word**

Warning

**Hazardous components which must be listed on the label**

D-limonene, Alcohols, C6-C12, Ethoxylated, propoxylated, Alcohols, C10-C16, ethoxylated, propoxylat

**Possible Hazards**

3.3% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

**HAZARD STATEMENTS**

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.

**LABEL PRECAUTIONARY STATEMENTS**

P362+P364 Take off contaminated clothing and wash it before reuse.

**PRECAUTIONARY STATEMENTS**

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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)
7758-29-4	231-838-7	No Information	50-75	SODIUM TRIPOLYPHOSPHATE	No information
497-19-8	207-838-8	No Information	10-25	Sodium carbonate	Eye Irrit. 2A (H319) Acute Tox. 3 Inhalation (H331) Acute Tox. 4 Oral (H302)
68937-66-6	614-825-4	No Information	2.5-10	Alcohols, C6-C12, Ethoxylated, propoxylated	Acute Tox. 4 Oral (H302)
69227-22-1	614-942-0	No Information	2.5-10	Alcohols, C10-C16, ethoxylated, propoxylated	Acute Tox. 4 Oral (H302)
7722-88-5	231-767-1	No Information	1.0-2.5	Tetrasodium Pyrophosphate	Acute Tox. 4 Oral (H302) Eye Dam. 1 (H318)
68-04-2	200-675-3	No Information	1.0-2.5	sodium citrate	No information
5989-27-5	227-813-5	No Information	1.0-2.5	D-limonene	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

95-14-7      202-394-1      No Information      < 1.0      BENZOTRIAZOLE/  
COBRATEC 1,2,3 BZ-FG      Acute Tox. 4 Oral (H302)  
POWDER      Acute Tox. 1 Inhalation (H330)  
Aquatic Chronic 3 (H412)

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
Tetrasodium Pyrophosphate 7722-88-5	STEL: 10 mg/m3 TWA: 5 mg/m3		TWA: 5 mg/m3			TWA: 5 mg/m3
D-limonene 5989-27-5					STEL: 50 ppm STEL: 280 mg/m3 TWA: 25 ppm TWA: 140 mg/m3	
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
Tetrasodium Pyrophosphate 7722-88-5		TWA: 5 mg/m3	STEL: 15 mg/m3 TWA: 5 mg/m3			
D-limonene 5989-27-5	STEL: 20 ppm STEL: 112 mg/m3 TWA: 5 ppm TWA: 28 mg/m3					
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	UK
Tetrasodium Pyrophosphate 7722-88-5	STEL: 10 mg/m3 TWA: 5 mg/m3				TWA: 5 mg/m3	STEL: 15 mg/m3 TWA: 5 mg/m3
D-limonene 5989-27-5	STEL: 37.5 ppm STEL: 175 mg/m3 TWA: 25 ppm TWA: 140 mg/m3		TWA: 30 ppm TWA: 168 mg/m3		STEL: 14 ppm STEL: 80 mg/m3 TWA: 7 ppm TWA: 40 mg/m3	

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.**

<b>Physical state</b>	Powder
<b>Appearance</b>	Moist granules
<b>Colour</b>	Yellow
<b>Odour</b>	Citrus
<b>Odour Threshold</b>	No Information
<b>pH</b>	10.5
<b>Melting point / freezing point (°C)</b>	No Information
<b>Flash Point, (°C)</b>	No Information
<b>Boiling point/range (°C)</b>	100 - 204
<b>Evaporation rate</b>	Faster than Diethyl Ether
<b>Combustibility</b>	Does not Support Combustion
<b>Upper/lower flammability or explosive limits</b>	No Information
<b>Vapour Pressure</b>	No Information
<b>Vapour density</b>	No Information
<b>Specific Gravity (g/cm<sup>3</sup>)</b>	1.013
<b>Solubility in / Miscibility with Water</b>	No Information
<b>Partition Coefficient: n-octanol/water</b>	No Information
<b>Auto-Ignition Temperature (°C)</b>	No Information
<b>Decomposition temperature (°C)</b>	No Information
<b>Viscosity</b>	No Information
<b>Oxidising properties</b>	Not Applicable

**9.2 Other information.**

**Volatile Organic Compounds (VOC) content** <0.5%

(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**

<b>LD50 Oral</b> 1 694.00	<b>LD50 Dermal</b> 8 230.00	<b>LC50 Inhalation</b> 290.75
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The following values are calculated based on chapter 3.1 Of the GHS document

<b>ATEmix (oral)</b>	1,694.0 mg/kg
<b>ATEmix (dermal)</b>	8,230.0 mg/kg
<b>ATEmix (inhalation - vapor)</b>	290.75 mg/l

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
497-19-8	Sodium carbonate	4090 mg/kg Rat	2002	0.8 mg/l Guinea pig
68937-66-6	Alcohols, C6-C12, Ethoxylated, propoxylated	500 mg/kg Rat	N.I.	N.I.
69227-22-1	Alcohols, C10-C16, ethoxylated, propoxylated	500 mg/kg Rat	N.I.	N.I.
7722-88-5	Tetrasodium Pyrophosphate	1000 - 3000 mg/kg Rat	N.I.	N.I.
68-04-2	sodium citrate	6500	5000	N.I.
5989-27-5	D-limonene	5200 mg/kg, 4400 mg/kg Rat	>5000 mg/kg Rabbit	N.I.
95-14-7	BENZOTRIAZOLE/COBRATEC 1,2,3 BZ-FG POWDER	560 mg/kg Rat	>10000 mg/kg Rabbit	1.9 mg/L Rat

N.I. = No Information

**Skin corrosion/irritation.**

SKIN IRRITANT.

**12. Ecological Information****12.1 Toxicity**

79.67% of the mixture consists of ingredient(s) of unknown aquatic toxicity

**Ecotoxicity Effects**

<b>Chemical Name</b>	<b>Toxicity to algae</b>	<b>Toxicity to fish</b>	<b>Toxicity to daphnia and other aquatic invertebrates</b>
Sodium carbonate 497-19-8	-	LC50 96 h Lepomis macrochirus 300 mg/L, LC50 96 h Pimephales promelas 310 - 1220 mg/L	EC50 48 h Daphnia magna 265 mg/L
sodium citrate 68-04-2	-	LC50 96 h Poecilia reticulata 18000 - 32000 mg/L	EC50 48 h Daphnia magna 5600 - 10000 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	-
BENZOTRIAZOLE/COBRATEC 1,2,3 BZ-FG POWDER 95-14-7	EC50 96 h freshwater algae 15.4 mg/L	LC50 96 h Oncorhynchus mykiss 39 mg/L	EC50 48 h water flea 141.6 mg/L
a-Pinene 80-56-8	-	LC50 96 h Pimephales promelas 0.28 mg/L	LC50 48 h Daphnia magna 41 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.

**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:	not regulated
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:	not regulated
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

<u>CAS/Chemical Name</u>	<u>French RG number</u>	<u>Title</u>
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

#### 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	-
DSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECI	-
PICCS	-
AICS	-
NZIoC	-

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**

<b>Revision Date</b>	8/9/2021	<b>Supersedes Date</b>	New MSDS
<b>Reason for revision</b>	No Information		

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

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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