



# Safety Data Sheet

Version: 2  
Revision Date: 1/3/2023

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

### 1.1. Product identifier

**Product identifier.** 123372/123373  
**Product name.** Formula 90, Biosolv  
**UFI** KMRF-U0EW-X003-JU0Q

### 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

Rust-Oleum Europe  
Kolenbergstraat 23  
3545 Halen, Belgium

**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 9 471 977  
**France** ORFILA (FR): + 01 45 42 59 59  
**Germany** Poison Center Berlin (DE): +49 030 30686 790 | par 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  
**Luxembourg** 112  
**Netherlands** National Poisons Information Center (NL): +31 88 755 8000 (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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Acute Toxicity, Oral, category 4  
Eye Irritation, category 2  
Skin Sensitizer, category 1

**2.2. Label elements****Signal Word**

Warning

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

Contains

Alcohols, C6-C12, Ethoxylated, propoxylated, Alcohols, C10-C16, ethoxylated, propoxylated, Tetrasodium Pyrophosphate

**Possible Hazards**

6.0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

**GHS HAZARD STATEMENTS**

H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.

**GHS LABEL PRECAUTIONARY STATEMENTS**

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.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/container to an approved waste disposal plant.

**GHS SDS PRECAUTIONARY STATEMENTS**

P261 Avoid breathing dust/fume/gas/mist/vapours/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.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**2.3. Other hazards**

EMERGENCY OVERVIEW: No Information

**SECTION 3: Composition/information on ingredients****3.1. Substances**

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

**3.2. Mixtures**

Chemical Name	CAS-No.	EC No.	REACH Reg No.	Wt. %
Sodium carbonate	497-19-8	207-838-8	No Information	>=10 - <20
Alcohols, C6-C12, Ethoxylated, propoxylated	68937-66-6	614-825-4	No Information	>=3 - <7
Alcohols, C10-C16, ethoxylated, propoxylated	69227-22-1	614-942-0	No Information	>=1 - <5
Tetrasodium Pyrophosphate	7722-88-5	231-767-1	No Information	>=1 - <3
D-limonene	5989-27-5	227-813-5	No Information	>=0.5 - <1.5

Chemical Name	Classification (1272/2008/EC)	Specific Conc. Limits, M-factors and ATEs
Sodium carbonate	Eye Irrit. 2A (H319) Acute Tox. 3 Inhalation (H331)	ATE oral (mg/kg): 4090 mg/kg Rat ATE dermal (mg/kg): 2002 ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): 0.8 mg/l Guinea pig
Alcohols, C6-C12, Ethoxylated, propoxylated	Acute Tox. 4 Oral (H302)	ATE oral (mg/kg): 500 mg/kg Rat ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
Alcohols, C10-C16, ethoxylated, propoxylated	Acute Tox. 4 Oral (H302)	ATE oral (mg/kg): 500 mg/kg Rat ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
Tetrasodium Pyrophosphate	Acute Tox. 4 Oral (H302) Eye Dam. 1 (H318)	ATE oral (mg/kg): 1000 - 3000 mg/kg Rat ATE dermal (mg/kg): N.R. ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
D-limonene	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	ATE oral (mg/kg): 5200 mg/kg, 4400 mg/kg Rat ATE dermal (mg/kg): >5000 mg/kg Rabbit M-Factors: 1

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

## SECTION 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media.

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

#### 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.

As in any fire, wear self-contained breathing apparatus and full protective gear.

## SECTION 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 material 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.

#### Other information.

No Information

### 6.4. Reference to other sections

No Information

## SECTION 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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limit Values

Chemical Name	Austria	Belgium	Denmark	European Union.	Finland	France
Sodium carbonate 497-19-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C6-C12, Ethoxylated, propoxylated 68937-66-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C10-C16, ethoxylated, propoxylated 69227-22-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Chemical Name	Austria	Belgium	Denmark	European Union.	Finland	France
Tetrasodium Pyrophosphate 7722-88-5	STEL: 10 mg/m3 TWA: 5 mg/m3	N.D.	TWA: 5 mg/m3	N.D.	N.D.	TWA: 5 mg/m3
D-limonene 5989-27-5	N.D.	N.D.	N.D.	N.D.	STEL: 50 ppm STEL: 280 mg/m3 TWA: 25 ppm TWA: 140 mg/m3	N.D.
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
Sodium carbonate 497-19-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C6-C12, Ethoxylated, propoxylated 68937-66-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C10-C16, ethoxylated, propoxylated 69227-22-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrasodium Pyrophosphate 7722-88-5	N.D.	TWA: 5 mg/m3	STEL: 15 mg/m3 TWA: 5 mg/m3	N.D.	N.D.	N.D.
D-limonene 5989-27-5	STEL: 20 ppm STEL: 112 mg/m3 TWA: 5 ppm TWA: 28 mg/m3	N.D.	N.D.	N.D.	N.D.	N.D.
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	United Kingdom
Sodium carbonate 497-19-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C6-C12, Ethoxylated, propoxylated 68937-66-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Alcohols, C10-C16, ethoxylated, propoxylated 69227-22-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrasodium Pyrophosphate 7722-88-5	STEL: 10 mg/m3 TWA: 5 mg/m3	N.D.	N.D.	N.D.	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	N.D.	TWA: 30 ppm TWA: 168 mg/m3	N.D.	STEL: 14 ppm STEL: 80 mg/m3 TWA: 7 ppm TWA: 40 mg/m3	N.D.

TWA: Time weighted average  
STEL: Short term exposure limit.

#### Derived No Effect Level (DNEL)

No Information Available

#### Predicted No Effect Concentration (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.

**Skin and body protection.**

Wear suitable protective clothing.  
No Information

**Respiratory protection.**

In case of insufficient ventilation wear suitable respiratory equipment.

**Environmental Exposure Controls.**

No Information

## SECTION 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, °C</b>	No Information
<b>Flash Point, °C</b>	Not Applicable
<b>Boiling Range, °C</b>	100 - 206
<b>Combustibility</b>	Does not Support Combustion
<b>Vapor Pressure, mmHg</b>	No Information
<b>Vapor density</b>	No Information
<b>Specific Gravity (g/cm<sup>3</sup>)</b>	1.013
<b>Solubility in 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

**9.2. Other information**

**Volatile organic compounds (VOC) content.** <0.5%

**9.2.1. Information with regard to physical hazard classes**

No Information

**9.2.2. Other safety characteristics**

No Information

## SECTION 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.

## SECTION 11: Toxicological information

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

#### Acute toxicity.

Harmful if swallowed.

#### Product Information

<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
1,694.00	8,230.00	290.75

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>	>5000 mg/kg
<b>ATEmix (inhalation-vapor)</b>	290.75 mg/l

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
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.R.	N.R.
69227-22-1	Alcohols, C10-C16, ethoxylated, propoxylated	500 mg/kg Rat	N.R.	N.R.
7722-88-5	Tetrasodium Pyrophosphate	1000 - 3000 mg/kg Rat	N.R.	N.R.
5989-27-5	D-limonene	5200 mg/kg, 4400 mg/kg Rat	>5000 mg/kg Rabbit	N.R.

#### Skin corrosion/irritation.

SKIN IRRITANT.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

N.A.

#### Other information.

N.A.

## SECTION 12: Ecological information

### 12.1. Toxicity

82.37% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Ecotoxicity effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia.
Sodium carbonate 497-19-8	N.D.	LC50 96 h <i>Lepomis macrochirus</i> 300 mg/L, LC50 96 h <i>Pimephales promelas</i> 310 - 1220 mg/L	EC50 48 h <i>Daphnia magna</i> 265 mg/L
Alcohols, C6-C12, Ethoxylated, propoxylated 68937-66-6	N.D.	N.D.	N.D.
Alcohols, C10-C16, ethoxylated, propoxylated 69227-22-1	N.D.	N.D.	N.D.
Tetrasodium Pyrophosphate 7722-88-5	N.D.	N.D.	N.D.
D-limonene 5989-27-5	N.D.	LC50 96 h <i>Pimephales promelas</i> 0.619 - 0.796 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 35 mg/L	N.D.

### 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.	Chemical Name	Bio. Conc. Factor (BCF)	Octanol-water par. Coeff (KOW)
497-19-8	Sodium carbonate	N.I.	N.I.
68937-66-6	Alcohols, C6-C12, Ethoxylated, propoxylated	N.I.	N.I.
69227-22-1	Alcohols, C10-C16, ethoxylated, propoxylated	N.I.	N.I.
7722-88-5	Tetrasodium Pyrophosphate	N.I.	N.I.
5989-27-5	D-limonene	N.I.	4.38

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

No information available

**12.5. Results of PBT and vPvB assessment**

No data are available on the product itself

**12.6. Endocrine disrupting properties**

No information available

**12.7. Other adverse effects**

No information available

**SECTION 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.

**SECTION 14: Transport information****ADR**

14.1. UN number or ID number	No Information
14.2. UN proper shipping name	Not Regulated
14.3. Transport hazard class(es)	No Information
14.4. Packing group	No Information
14.5. Environmental hazards	No.
14.6. Special precautions for user	No Information

**IMDG**

14.1. UN number or ID number	No Information
14.2. UN proper shipping name	Not Regulated
14.3. Transport hazard class(es)	No Information
14.4. Packing group	No Information
14.5 Marine Pollutant	No.
Environmental hazards	No.
14.6. Special precautions for user	No Information
14.7. Maritime transport in bulk according to IMO instruments	No Information

**IATA**

14.1. UN number or ID number	No Information
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<b>14.2. UN proper shipping name</b>	Not Regulated
<b>14.3. Transport hazard class(es)</b>	No Information
<b>14.4. Packing group</b>	No Information
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	No Information

## SECTION 15: Regulatory information

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

#### National regulatory information.

Germany WGK Classification 3

#### French table of occupational diseases

CAS-No.	Chemical Name	French table of occupational diseases
5989-27-5	D-limonene	RG 84

#### 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 and/or restrictions on use:

CAS-No.	Chemical Name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
497-19-8	Sodium carbonate	No.	Yes.
5989-27-5	D-limonene	No.	Yes.

#### EU Substances of Very High Concern

None

#### International Inventories.

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

**15.2. Chemical safety assessment**

No.

**SECTION 16: Other information****Revision Date** 1/3/2023**Indication of changes:** Commission Regulation (EU) 2020/878: amending Annex II by introducing specific requirements regarding nanoforms of substances, adapting to the 6th and 7th revision of the GHS, and adding requirements regarding the Unique Formula Identifier (as set by Annex VIII to Regulation (EC) 1272/2008), endocrine disrupting properties, specific concentration limits, M-factors and acute toxicity estimates.**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

**Legend.**

N.D.	No data available.
N.I.	No information available.
N.A.	Not Applicable.
N.R.	Not relevant.

This safety datasheet complies with the requirements of Regulation (EC) No. 2020/878

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.