# **Safety Data Sheet**



Revision Date 05-May-2016 Version 2.03

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

1.1 Product identifier

**Product name** Formula 90, Biosolv

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

Recommended Use Professional Carpet Cleaning

1.3 Details of the supplier of the safety data sheet

Supplier Legend Brands Europe

Chemspec

22 Plover Close Interchange Park Newport Pagnell MK16 9PS, UK

+44 (0) 1908 611211

Manufacturer Legend Brands

Chemspec

15180 Josh Wilson Road Burlington, WA 98233

800-932-3030

For further information, please contact: msds@chemspecworld.com

1.4 Emergency telephone number

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

DenmarkPoison Control Hotline (DK): +45 82 12 12 12FinlandPoison Information Centre (FI):+358 9 471 977

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

lceland +354 543 2222

Italy Poison Center, Milan (IT): +39 02 6610 1029

Luxembourg 112

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

PortugalPoison Information Center (PT): +351 21 330 3284SpainPoison Information Service (ES): +34 91 562 04 20SwedenPoisons Information Center (SV):+46 8 33 12 31SwitzerlandPoisons Center Tel 4451 14 41 254 54 54

**Switzerland** Poison Center: Tel 145; +41 44 251 51 51

United Kingdom 111

## 2. Hazards identification

## 2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2 Label elements



#### **Hazard Statements**

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

#### 2.3. Other Hazards

No information available

# 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	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Sodium carbonate	207-838-8	497-19-8	10 - 25	Eye Irrit. 2 (H319)	no data available
TETRASODIUM EDTA	200-573-9	64-02-8	1 - 2.5	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318)	no data available
Tetrasodium Pyrophosphate	231-767-1	7722-88-5	1 - 2.5	no data available	no data available
Sodium 2-Mercaptobenzothiazole	219-660-8	2492-26-4	< 1	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available
POLY(OXY-1,2-ETHANEDIYL ), A-HYDRO-O-HYDROXY-	-	25322-68-3	< 1	NA	no data available

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** Show this safety data sheet to the doctor in attendance.

**Inhalation** Move to fresh air.

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

shoes.

**Eye contact** Remove contact lenses, if present.

**Ingestion** Gently wipe or rinse the inside of the mouth with water.

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

**Symptoms** Eye irritation. Irritating to respiratory system and skin.

#### 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.

#### Extinguishing media which shall not be used for safety reasons

No information available.

#### 5.2 Special hazards arising from the substance or mixture

No information available.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

### Personal precautions

Use personal protective equipment.

#### Advice for emergency responders

For personal protection see section 8.

#### 6.2 Environmental precautions

Dike to collect large liquid spills. 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.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 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 Wear personal protective equipment.

**Hygiene measures** When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep tightly closed in a dry and cool place. Use only in area provided with appropriate exhaust ventilation.

#### 7.3 Specific end uses

#### Specific use(s)

No information available

#### **Exposure scenario**

No information available.

## 8. Exposure controls/personal protection

#### 8.1 Control parameters

**Exposure Limit Values** 

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
Tetrasodium Pyrophosphate 7722-88-5		STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>
POLY(OXY-1,2-ETHA NEDIYL), A-HYDRO-O-HYDRO XY- 25322-68-3		STEL 4000 mg/m <sup>3</sup> TWA: 1000 mg/m <sup>3</sup>				
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
Tetrasodium Pyrophosphate 7722-88-5		TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>			
POLY(OXY-1,2-ETHA NEDIYL), A-HYDRO-O-HYDRO XY- 25322-68-3	TWA: 1000 mg/m <sup>3</sup>					
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
Tetrasodium Pyrophosphate 7722-88-5	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>	STEL: 15 mg/m³ TWA: 5 mg/m³
POLY(OXY-1,2-ETHA NEDIYL), A-HYDRO-O-HYDRO XY- 25322-68-3					TWA: 1000 mg/m <sup>3</sup>	

TWA: Time weighted average STEL: Short term exposure limit LLV: Exposure Limit Values STV: Short Term Value

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

#### 8.2 Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering Measures** 

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. or. Goggles.

Rubber/latex/neoprene or other suitable chemical resistant gloves. **Hand Protection** 

Skin and body protection Long sleeved clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

respiratory protection should be worn. Respiratory protection must be provided in

accordance with current local regulations.

When using, do not eat, drink or smoke. Hygiene measures

**Environmental Exposure Controls** No information available.

## 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Solid Physical state **Appearance** Powder Color Yellow Odor Citrus

**Odor Threshold** No information available

Property Values Remarks (as 1% solution) рΗ 10.5 Not applicable Melting/freezing point

Boiling point/boiling range Not applicable

Flash Point Not Determined

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limit No information available lower flammability limit No information available

Vapor pressure No information available No information available Vapor density **Specific Gravity** No information available No information available Water solubility Solubility in other solvents No information available Partition coefficient No information available

**Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidizing Properties** No information available

#### 9.2 Other information

Volatile organic compounds (VOC) content < 0.5%

## 10. Stability and Reactivity

#### 10.1 Reactivity

No information available.

#### 10.2 Chemical stability

Stable under normal conditions

#### 10.3 Possibility of hazardous reactions

No information available.

#### 10.4 Conditions to Avoid

Avoid dust accumulation in enclosed space.

#### 10.5 Incompatible Materials

No materials to be especially mentioned

#### 10.6 Hazardous Decomposition Products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

#### **Product Information**

The product itself has not been tested.

InhalationThere are no data available for this product.Eye contactThere are no data available for this product.Skin contactThere are no data available for this product.IngestionThere are no data available for this product.

### The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 2,497.00 mg/kg

 ATEmix (dermal)
 8,589.00 mg/kg ppm

ATEmix (inhalation-dust/mist) 11.00 mg/l ATEmix (inhalation-vapor) 377.00 mg/l

## **Unknown Acute Toxicity**

- < 1% of the mixture consists of ingredient(s) of unknown toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- < 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	4090 mg/kg (Rat)		= 2300 mg/m³ (Rat) 2 h
Tetrasodium Pyrophosphate	1000 - 3000 mg/kg (Rat)		

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation May cause eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Specific target organ systemic

toxicity (single exposure)

No information available.

Specific target organ systemic toxicity (repeated exposure)

No information available.

**Target Organs** Eyes. Respiratory system. Skin.

**Aspiration hazard** No information available.

## 12. Ecological information

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects

83.92921 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### **Ecotoxicity effects**

No data are available on the product itself Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium carbonate		LC50: 96 h Lepomis macrochirus 300 mg/L static LC50: 96 h Pimephales promelas 310 - 1220 mg/L static	EC50: 48 h Daphnia magna 265 mg/L
TETRASODIUM EDTA	EC50: 72 h Desmodesmus subspicatus 1.01 mg/L	LC50: 96 h Lepomis macrochirus 41 mg/L static LC50: 96 h Pimephales promelas 59.8 mg/L static	
Sodium 2-Mercaptobenzothiazole	EC50: 96 h Pseudokirchneriella subcapitata 0.3 mg/L	LC50: 96 h Oncorhynchus mykiss 0.3 - 1.1 mg/L static LC50: 96 h Lepomis macrochirus 3.8 mg/L static	EC50: 48 h Daphnia magna 1.9 - 5.1 mg/L Static

#### 12.2 Persistence and degradability

No data are available on the product itself.

## 12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Sodium 2-Mercaptobenzothiazo	ole -0.46

#### 12.4 Mobility in soil

## Mobility in soil

No information available.

#### **Mobility**

No data is available on the product itself.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects.

No information available.

## 13. Disposal Considerations

#### 13.1 Waste treatment methods

Waste from residues / unused

products

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information

According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

## 14. Transport Information

## ADR ...

14.1 UN	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
	A.1

14.6 Special Provisions None

#### <u>IMDG</u>

14.1	UN	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard class	Not regulated
14.4	Packing Group	Not regulated
14.5	Marine pollutant	Not applicable

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

MARPOL 73/78 and the IBC Code

#### IATA

14.1 U	N	Not regulated
14.2 P	roper shipping name	Not regulated
14.3 H	azard class	Not regulated
14.4 P	acking Group	Not regulated
14.5 E	nvironmental hazard	Not applicable
14.6 S	pecial Provisions	None

## 15. Regulatory information

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

## National regulatory information

Germany

#### **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

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

#### **International Inventories**

**TSCA** Complies **EINECS/ELINCS** Complies Complies **DSL PICCS** Complies **ENCS** Complies **IECSC** Complies Complies **AICS** Complies **KECL** Complies **NZIoC** 

#### Leaend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

#### 15.2 Chemical Safety Assessment

No information available

#### 16. Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H318 - Causes serious eye damage

Prepared By Chemspec Regulatory Affairs/Product Safety

**Revision Date** 05-May-2016

Revision Note Not Applicable.

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

#### Disclaimer

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.

**End of Safety Data Sheet**