

SAFETY DATA SHEET



Revision Date 09-Aug-2016
Version 2.03

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

1.1 Product identifier

Product name FORMULA 90, Biosolv
Product code W.20150

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

Recommended Use Professional Carpet Cleaning
Restrictions on use Professional Use Only

1.3 Details of the supplier of the safety data sheet

Manufacturer Address Legend Brands
15180 Josh Wilson Road
Burlington, WA 98233
800-932-3030

Supplier Legend Brands
4520 Eastgate Parkway
Mississauga, ON L4W 3W6
800-932-3030

E-mail Address msds@chemspecworld.com

1.4 Emergency telephone number

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

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
|-----------------------------------|-------------|

2.2 Label elements

Signal Word
Warning

Hazard Statements
Causes serious eye irritation

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
Wear eye protection/ face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity

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

3. Composition/Information on Ingredients

Substance
Mixture

| Chemical Name | CAS-No | Weight % |
|--|--------------|----------|
| Sodium carbonate | 497-19-8 | 10 - 20 |
| Alcohols, C6-C12, Ethoxylated, propoxylated | 68937-66-6 | 10 - 20 |
| Alcohols, C10-C16, ethoxylated, propoxylated | 69227-22-1 | 5 - 10 |
| TETRASODIUM EDTA | 64-02-8 | 1 - 5 |
| Tetrasodium Pyrophosphate | 7722-88-5 | 1 - 5 |
| Orange Oil | 8008-57-9-LB | 1 - 5 |

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

| | |
|-----------------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Eye contact | Remove contact lenses, if present. |
| Skin contact | Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. |
| Inhalation | Move to fresh air. |
| 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.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the substance or mixture

Special Hazard

None known based on information supplied

Hazardous Combustion Products No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

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.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

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.

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.

Materials to Avoid No materials to be especially mentioned.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | British Columbia | Alberta | Quebec | Ontario TWAEV |
|---|-----------|----------|------------------|---------|--------------------------|--------------------------|
| Tetrasodium Pyrophosphate 7722-88-5 | - | - | | | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ |

8.2 Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/Face Protection | Safety glasses with side-shields. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to handling and processing of material. |
| Skin and body protection | Long sleeved clothing. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. |
| Hygiene measures | See section 7 for more information |

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical state | Solid |
| Appearance | Powder |
| Color | Yellow |
| Odor | Citrus |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Methods</u> |
|-------------------------------------|----------------|------------------------------------|
| pH | 10.5 | (as 1% solution) 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 |
| Vapor density | | No information available |
| Specific Gravity | | No information available |
| Water solubility | | No information available |
| 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 data available

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Avoid dust accumulation in enclosed space.

10.5 Incompatible Materials

None known based on information supplied.

10.6 Hazardous Decomposition Products

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

11. Toxicological information

11.1 Acute toxicity**Numerical measures of toxicity: Product Information**

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

Unknown Acute Toxicity < 1% of the mixture consists of ingredient(s) of unknown toxicity

| | |
|-------------------------|----------------|
| Oral LD50 | 2,497.00 mg/kg |
| Dermal LD50 | 8,589.00 mg/kg |
| LC50 (Dust/Mist) | 11.00 mg/l |
| LC50 (Vapor) | 377.00 mg/l |

Numerical measures of toxicity: Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|---------------------------|-------------|--------------------------------------|
| Sodium carbonate 497-19-8 | 4090 mg/kg (Rat) | - | = 2300 mg/m ³ (Rat) 2 h |
| TETRASODIUM EDTA 64-02-8 | 1658 mg/kg (Rat) | - | - |
| Tetrasodium Pyrophosphate 7722-88-5 | 1000 - 3000 mg/kg (Rat) | - | - |
| Orange Oil 8008-57-9-LB | 4400 mg/kg (Rat) | - | - |

11.2 Information on toxicological effects**Skin corrosion/irritation**Product Information

- No information available

Component Information

- No information available

Serious eye damage/eye irritationProduct Information

- May cause eye irritation

Component Information

- No information available

Respiratory or skin sensitizationProduct Information

- No information available

Component Information

- No information available

Germ cell mutagenicityProduct Information

- No information available

Component Information

- No information available

CarcinogenicityProduct Information

- No information available

Component Information

- No information available

Reproductive toxicityProduct Information

- No information available

Component Information

- No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Other adverse effectsProduct Information

- No information available

Component Information

- No information available

Aspiration hazardProduct Information

- No information available

Component Information

- No information available

12. Ecological information

12.1 Toxicity**Ecotoxicity**

No information available

83.92921 % 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 and other aquatic invertebrates |
|------------------------------|-------------------------------|---|---|
| Sodium carbonate 497-19-8 | - | LC50: 96 h <i>Lepomis macrochirus</i> 300 mg/L static LC50: 96 h <i>Pimephales promelas</i> 310 - 1220 mg/L static | EC50: 48 h <i>Daphnia magna</i> 265 mg/L |
| TETRASODIUM EDTA | EC50: 72 h <i>Desmodesmus</i> | LC50: 96 h <i>Lepomis macrochirus</i> 41 | - |

| | | | |
|---------|-----------------------|--|--|
| 64-02-8 | subspicatus 1.01 mg/L | mg/L static LC50: 96 h Pimephales promelas 59.8 mg/L static | |
|---------|-----------------------|--|--|

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

No information available.

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1 Waste treatment methods

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

14. Transport Information

DOT Not regulated

MEX Not regulated

IMDG Not regulated

IATA Not regulated

15. Regulatory information

15.1 International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | 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

PICCS - Philippines Inventory of Chemicals and 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 U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

15.3 Pesticide Information

Not applicable

15.4 U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | California Prop. 65 |
|--------------------------------|---------------------|
| Nitrotriacetic acid - 139-13-9 | Carcinogen |

16. Other information

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 0 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2 | Flammability 0 | Physical Hazard 0 | Personal protection X |

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

Ceiling (C)

DOT (Department of Transportation)

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

NIOSH (National Institute for Occupational Safety and Health)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL (Permissible Exposure Limit)

Reportable Quantity (RQ)

Skin designation (S*)

STEL (Short Term Exposure Limit)

TLV® (Threshold Limit Value)

TWA (time-weighted average)

Prepared By Chemspec Regulatory Affairs/Product Safety
Revision Date 09-Aug-2016

Revision Note
 No information available

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