

SAFETY DATA SHEET



Revision Date 29-May-2015
Version 1

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

1.1 Product identifier

Product name DynaForce 77, BioSolv
Product code W.20290

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

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

E-mail Address msds@chemspecworld.com

1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

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 2
Skin sensitization	Category 1

2.2 Label elements

Signal Word
Warning

Hazard Statements
Causes serious eye irritation
May cause an allergic skin reaction

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

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
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity

3.031477% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance

Chemical Name	CAS-No	Weight %
Alcohols, C6-C12, Ethoxylated, propoxylated	68937-66-6	5 - 10
Sodium carbonate	497-19-8	5 - 10
Alcohols, C10-C16, ethoxylated, propoxylated	69227-22-1	1 - 5
Ethoxylated Lauryl Alcohol	9002-92-0	1 - 5
TETRASODIUM EDTA	64-02-8	1 - 5
SODIUM (C14-16) OLEFIN SULFONATE	68439-57-6	1 - 5
D-limonene	5989-27-5	< 1
Sodium 2-Mercaptobenzothiazole	2492-26-4	< 1

* 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 material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Skin contact

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. If skin irritation persists, call a physician.

Inhalation

Move to fresh air. Consult a physician after significant exposure.

Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Get medical attention immediately.

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 Recommendations for immediate medical care and/or special treatment

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable Extinguishing Media None.

5.2 Specific hazards arising from the substance or mixture

Special Hazard

Hazardous decomposition products formed under fire conditions

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. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system. 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 Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in

area provided with appropriate exhaust ventilation.

Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep locked up or in an area accessible only to qualified or authorized persons. Keep tightly closed in a dry, cool and well-ventilated place. Protect from frost.

Materials to Avoid

Strong oxidizing agents.

8. Exposure controls/personal protection**8.1 Occupational Exposure Limits (OEL)****8.2 Appropriate engineering controls****Engineering Measures**

Showers
Eyewash stations
Ventilation systems.

8.3 Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and body protection

Long sleeved clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures

See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Yellow
Odor	Citrus
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	10.4	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point	> 94 °C / > 201 °F	
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	1.109 g/cc	
Water solubility	completely soluble	
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 < 1%

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

Direct sources of heat.

10.5 Incompatible Materials

Strong oxidizing agents.

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	3.031477% of the mixture consists of ingredient(s) of unknown toxicity
Oral LD50	2,711.00 mg/kg mg/l
Mist	64.90 mg/l
Vapor	476.00 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)	-	-
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	2310 mg/kg (Rat)	= 6300 mg/kg (Rabbit)	-
D-limonene 5989-27-5	4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Sodium 2-Mercaptobenzothiazole 2492-26-4	750 mg/kg (Rat)	> 1250 mg/kg (Rabbit)	-

11.2 Information on toxicological effects

Skin corrosion/irritation

Product Information

- No information available

Component Information

- No information available

Eye damage/irritation

Product Information

- No information available

Component Information

- No information available

Respiratory or skin sensitization

Product Information

- No information available

Component Information

- No information available

Germ Cell Mutagenicity

Product Information

- No information available

Component Information

- No information available

Carcinogenicity

Product Information

- The table below indicates whether each agency has listed any ingredient as a carcinogen

Component Information

-

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 effectsTarget Organs

- No information available

Product 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

23.84147 % of the mixture consists of component(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 64-02-8	EC50: 72 h <i>Desmodesmus subspicatus</i> 1.01 mg/L	LC50: 96 h <i>Lepomis macrochirus</i> 41 mg/L static LC50: 96 h <i>Pimephales promelas</i> 59.8 mg/L static	-
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	-	LC50: 96 h <i>Brachydanio rerio</i> 1.0 - 10.0 mg/L static LC50: 96 h <i>Brachydanio rerio</i> 12.2 mg/L semi-static	-
D-limonene 5989-27-5	-	LC50: 96 h <i>Pimephales promelas</i> 0.619 - 0.796 mg/L flow-through LC50: 96 h <i>Oncorhynchus mykiss</i> 35 mg/L	-
Sodium 2-Mercaptobenzothiazole 2492-26-4	EC50: 96 h <i>Pseudokirchneriella subcapitata</i> 0.3 mg/L	LC50: 96 h <i>Oncorhynchus mykiss</i> 0.3 - 1.1 mg/L static LC50: 96 h <i>Lepomis macrochirus</i> 3.8 mg/L static	EC50: 48 h <i>Daphnia magna</i> 1.9 - 5.1 mg/L Static

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

Chemical Name	log Pow
Sodium 2-Mercaptobenzothiazole 2492-26-4	-0.46

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

Discharge into the environment must be avoided

13. Disposal Considerations

13.1 Waste Disposal Guidance

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 Commercial Chemical Substances/EU 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
METHANOL - 67-56-1	Developmental
Nitilotriacetic acid - 139-13-9	Carcinogen

16. Other information

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and chemical hazards - Personal protection X
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	

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

29-May-2015

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