

SAFETY DATA SHEET



Revision Date 20-Apr-2015
Version 1

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

1.1 Product identifier

Product name DynaForce 77
Product code LG-F1157-CS

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 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: 1-800-424-9300 for US
+1 703-527-3887 outside US

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

2.2 Label elements

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

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

3. Composition/Information on Ingredients

Substance

The product contains no substances known to be hazardous to health in concentrations which need to be taken into account

Chemical Name	CAS-No	Weight %
Sodium carbonate	497-19-8	20 - 30
Sodium Metasilicate	6834-92-0	5 - 10
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	5 - 10
Anionic surfactant blend	LG-C0285-A	1 - 5
Multipurpose surfactant blend	LG-C0316-A	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 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	Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

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 High volume water jet.

5.2 Specific hazards arising from the substance or mixture**Special Hazard**

Smoke Carbon monoxide Carbon dioxide (CO₂)

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.

6.2 Environmental precautions

Do not allow material to contaminate ground water system.

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. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.

Hygiene measures

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place.

Materials to Avoid No materials to be especially mentioned.

8. Exposure controls/personal protection

8.1 Occupational Exposure Limits (OEL)

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-				

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.
- 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	Solid
Appearance	Powder
Color	Blue
Odor	Fresh Pleasant
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	10	
Melting/freezing point		
Boiling point/boiling range		
Flash Point		
Evaporation rate		
Flammability (solid, gas)		
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		
Vapor density		
Specific Gravity		
Water solubility	Soluble in water	
Solubility in other solvents		
Partition coefficient		
Autoignition temperature		
Decomposition temperature		
Viscosity, kinematic		
Viscosity, dynamic		
Explosive properties		
Oxidizing Properties		

9.2 Other information

Volatile organic compounds (VOC) content	Negligible
Bulk Density	No data available

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 moisture.

10.5 Incompatible Materials

None known based on information supplied.

10.6 Hazardous Decomposition Products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO₂). Carbon monoxide. Fumes. 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

Oral LD50	2,772.00 mg/kg
Dermal LD50	9,940.00 mg/kg mg/l
Mist	28.00 mg/l
Vapor	28.00 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
Sodium Metasilicate 6834-92-0	600 mg/kg (Rat)	-	-
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Anionic surfactant blend LG-C0285-A	5000	2000	-
Multipurpose surfactant blend LG-C0316-A	2000	-	-

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

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

Chemical Name	ACGIH	IARC	NTP	OSHA
NAPHTHALENE 91-20-3	A3	Group 2B	Reasonably Anticipated	

Reproductive toxicity

Product Information

- No information available

Component Information

- No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

- Avoid repeated exposure

Other adverse effects

Target Organs

- No information available

Product Information

- No information available

Component Information

- No information available

Aspiration hazard

Product Information

- No information available

Component Information

- No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity

No information available

57.85999 % 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 Lepomis macrochirus 300 mg/L static LC50: 96 h Pimephales promelas 310 - 1220 mg/L static	EC50: 48 h Daphnia magna 265 mg/L
Sodium Metasilicate 6834-92-0	-	LC50: 96 h Brachydanio rerio 210 mg/L semi-static LC50: 96 h Brachydanio rerio 210 mg/L	-
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	EC50: 96 h Desmodesmus subspicatus 100 mg/L	LC50: 96 h Lepomis macrochirus 1300 mg/L static	EC50: 48 h Daphnia magna 100 mg/L

12.2 Persistence and degradability

No data are available on the product itself.

12.3 Bioaccumulative potential

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No adverse effects are expected.

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

<u>DOT</u>	Not regulated
<u>MEX</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>IATA</u>	Not regulated

15. Regulatory information

15.1 International Inventories

TSCA	-
DSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
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 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	1.0

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
NAPHTHALENE - 91-20-3	Carcinogen

16. Other information

NFPA	Health Hazard 0	Flammability 0	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 0	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
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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