

# Material Safety Data Sheet



## Dizolve Laundry Detergent Sheets

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	: Dizolve Laundry Detergent Sheets
<b>Code</b>	: FL32-12, FL48-12, FL64-12 (Fresh Linen); LA32-12, LA48-12, LA64-12 (Lavender); UN32-12, UN48-12, UN64-12 (Unscented)
<b>Material uses</b>	: Laundry Detergent
<b>Supplier/Manufacturer</b>	: Dizolve Group Corporation 290 Baig Blvd. Suite B10 E1E1C8, Moncton New Brunswick, Canada Tel: (506) 857-0499 Toll Free: 1-877-249-6846 Fax: (506) 384-2984 E-mail: info@mydizolve.com
<b>MSDS authored by</b>	: KMK Regulatory Services inc.
<b>In case of emergency</b>	: Contact nearest poison control center.
<b>Product type</b>	: Solid.

This MSDS applies to all/handling of these products for consumer use only.

### 2. HAZARDS IDENTIFICATION

<b>Color</b>	: Violet. Blue. White.
<b>Physical state</b>	: Solid.
<b>Odor</b>	: Fresh Linen (Rose) & Lavender.
<b>Signal word</b>	: WARNING!
<b>Hazard statements</b>	: CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.
<b>Precautions</b>	: Avoid consumption and contact with eyes. Wash thoroughly after handling.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Inhalation</b>	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	: May be harmful if swallowed.
<b>Skin</b>	: Irritating to skin.
<b>Eyes</b>	: Irritating to eyes.
<b>Potential chronic health effects</b>	
<b>Chronic effects</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Target organs</b>	: No known significant effects or critical hazards.
<b>Over-exposure signs/symptoms</b>	
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

## 2. HAZARDS IDENTIFICATION

**Skin** : Adverse symptoms may include the following:  
irritation  
redness

**Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Medical conditions aggravated by over-exposure** : None known.

See toxicological information (section 11)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### United States

Name	CAS number	%
Amylum	9005-25-8	30 - 60
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	10 - 30
Non-hazardous polymer	9002-89-5	10 - 30
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (1:1)	9004-82-4	1 - 5

### Canada

Name	CAS number	%
Amylum	9005-25-8	30 - 60
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	10 - 30

### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	Not regulated.	10 - 30	-	1	1	0	
Non-hazardous polymer	9002-89-5	Not regulated.	10 - 30	-	1	2	0	
Amylum	9005-25-8	Not regulated.	30 - 60	-	0	0	0	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. FIRST AID MEASURES

**Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, get medical attention.

**Skin contact** : If prolonged contact, flush skin with plenty of water.

**Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

**Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Monitor and if condition worsens then call medical doctor or poison control center immediately.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

**Notes to physician** : No specific treatment. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flammability of the product** : No specific fire or explosion hazard.

**Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Hazardous decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 sulfur oxides  
 halogenated compounds

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : None required.

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Check with your local water treatment plant if large quantities have been released.

**Methods for cleaning up**

**Spill** : Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

**Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be kept resealed for greater effectiveness. Do not store in unlabeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**United States**

Ingredient	Exposure limits
Amylum	<p><b>ACGIH TLV (United States, 1/2005).</b>                      TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.</p> <p><b>NIOSH REL (United States, 6/2009).</b>                      TWA: 5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fraction                      TWA: 10 mg/m<sup>3</sup> 10 hour(s). Form: Total</p> <p><b>OSHA PEL (United States, 11/2006).</b>                      TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction                      TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust</p> <p><b>ACGIH TLV (United States, 1/2009).</b>                      TWA: 10 mg/m<sup>3</sup> 8 hour(s).</p>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
Amylum	US ACGIH 1/2005	-	10	-	-	-	-	-	-	-	[a]
	US ACGIH 1/2009	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	
	BC 9/2009	-	3	-	-	-	-	-	-	-	[b]
		-	10	-	-	-	-	-	-	-	[c]
	ON 8/2008	-	10	-	-	-	-	-	-	-	[d]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[e]

Form: [a]All forms. [b]Respirable dust [c]Total dust [d]total dust [e]Total dust.

### Mexico

Ingredient	Exposure limits
Amylum	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: All forms. <b>ACGIH TLV (United States, 1/2009).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.
- Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- Respiratory** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Not required under normal conditions of use.
- Hands** : Use gloves appropriate for work or task being performed. Recommended: Not required under normal conditions of use.
- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Not required under normal conditions of use.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Not required under normal conditions of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Solid.
- Flash point** : Not available.
- Color** : Violet. Blue. White.
- Odor** : Fresh Linen (Rose) & Lavender.
- pH** : 5.5 to 6 [Conc. (% w/w): 1%]
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Vapor pressure** : None known.  
**Vapor density** : None known.  
**Solubility** : Miscible in water.

## 10. STABILITY AND REACTIVITY

- Chemical stability** : The product is stable.  
**Conditions to avoid** : No specific data.  
**Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.  
 Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals and moisture.  
**Hazardous decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 sulfur oxides  
 halogenated compounds  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

- Acute toxicity** : No specific data.

### Chronic toxicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Amylum Non-hazardous polymer	A4 -	- 3	- -	- -	- -	- -

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : Not established

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Acute EC50 4.53 to 4.95 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours

## 13. DISPOSAL CONSIDERATIONS

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		-
<b>TDG Classification</b>	Not regulated.	-	-	-		-
<b>Mexico Classification</b>	Not regulated.	-	-	-		-
<b>IMDG Class</b>	Not regulated.	-	-	-		-
<b>IATA-DGR Class</b>	Not regulated.	-	-	-		-

PG\* : Packing group

Exemption to the above classification may apply.

**AERG** : -

## 15 . REGULATORY INFORMATION

### United States

- HCS Classification** : EXEMPTED
- U.S. Federal regulations** : **TSCA 8(a) IUR**: Amylum; Non-hazardous polymer; Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (1:1)  
**United States inventory (TSCA 8b)**: All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substances**: No products were found.  
**SARA 302/304 emergency planning and notification**: No products were found.  
**SARA 302/304/311/312 hazardous chemicals**: Amylum; Non-hazardous polymer  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**:  
Amylum: Immediate (acute) health hazard, Delayed (chronic) health hazard; Non-hazardous polymer: Fire hazard  
**Clean Water Act (CWA) 307**: No products were found.  
**Clean Water Act (CWA) 311**: Dodecylbenzenesulfonic acid; Sodium hydroxide  
**Clean Air Act (CAA) 112 accidental release prevention**: No products were found.  
**Clean Air Act (CAA) 112 regulated flammable substances**: No products were found.  
**Clean Air Act (CAA) 112 regulated toxic substances**: No products were found.
- Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed
- State regulations** : **Connecticut Carcinogen Reporting**: None of the components are listed.  
**Connecticut Hazardous Material Survey**: None of the components are listed.  
**Florida substances**: None of the components are listed.  
**Illinois Chemical Safety Act**: None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act**: None of the components are listed.  
**Louisiana Reporting**: None of the components are listed.

## 15 . REGULATORY INFORMATION

**Louisiana Spill:** None of the components are listed.

**Massachusetts Spill:** None of the components are listed.

**Massachusetts Substances:** The following components are listed: Amylum; Benzenemethanaminium, N-ethyl-N-[4-[[4-[ethyl[(3-sulfophenyl)methyl]amino]phenyl]](2-sulfophenyl)methylene]-2,5-cyclohexadien-1-ylidene]-3-sulfo-, inner salt, sodium salt (1:2)

**Michigan Critical Material:** None of the components are listed.

**Minnesota Hazardous Substances:** None of the components are listed.

**New Jersey Hazardous Substances:** None of the components are listed.

**New Jersey Spill:** None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

**New York Acutely Hazardous Substances:** None of the components are listed.

**New York Toxic Chemical Release Reporting:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** The following components are listed:

Amylum

**Rhode Island Hazardous Substances:** None of the components are listed.

### Canada

**WHMIS (Canada)** : EXEMPTED

**Canadian lists** : **CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed.  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

**Classification** :



### International regulations

**International lists** : **Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** Not determined.  
**Japan inventory:** Not determined.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

## 16 . OTHER INFORMATION

### United States

**Hazardous Material Information System (U.S.A.)** : **Health :** 1      **Flammability :** 0      **Physical hazards :** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** : **Health :** 1      **Flammability :** 0      **Instability :** 0

## 16 . OTHER INFORMATION

### Canada

WHMIS (Canada)

:



### References

: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

Date of issue

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Version

: 1

### Notice to reader

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a reference. Users should consider this data only as a guide to their own investigations to determine the suitability of the information for their particular purposes. Dizolve Group Corporation shall not be held liable for any injury to the receiver or third persons, or for any damage to any property resulting from the handling or misuse of the product.