

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071392422

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071392307 071392315 071392323 071392331 071392356 071392364 071392372 071392380 071392398 071392414

071392430 071392448 071392455 071392463 071392471

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 07.05.2023

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**FLOWABLE LV SAMPLE A2, FLOWABLE SAMPLE A2, FLOWABLE LV INTRO KIT 2x A2/A3, FLOWABLE INTRO KIT 2x A2/A3, FLOWABLE LV 1 SYR 2G: (A1, A2, A3, A3.5, 2XB, I), FLOWABLE 1 SYR 2G: (A1, A2, A3, A3.5, 2XB, I)**

### SECTION 1: Identification

#### Product identifier

**Product name:** FLOWABLE LV SAMPLE A2, FLOWABLE SAMPLE A2, FLOWABLE LV INTRO KIT 2x A2/A3, FLOWABLE INTRO KIT 2x A2/A3, FLOWABLE LV 1 SYR 2G: (A1, A2, A3, A3.5, 2XB, I), FLOWABLE 1 SYR 2G: (A1, A2, A3, A3.5, 2XB, I)

**Product code:** 071392307, 071392315, 071392323, 071392331, 071392356, 071392364, 071392372, 071392380, 071392398, 071392463, 071392414, 071392422, 071392430, 071392448, 071392455, 071392471

#### Recommended use of the product and restriction on use

**Relevant identified uses:** For filling of cavitated teeth by dental professionals.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

##### Canada

Patterson Dentaire Canada Inc.  
1205 boul Henri-Bourassa West  
Montreal, Quebec H3M 3E6  
+1 514 745 4040

#### Emergency telephone number:

##### Canada

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)

Outside USA and Canada: +1-703-527-3887 (24 hours)

### SECTION 2: Hazard identification

#### GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

#### Label elements

**Hazard pictograms:**

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**Signal Word:** Warning

## Hazard statements:

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction

## Precautionary statements:

- P264 Wash hands thoroughly for 15 minutes after handling.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P261 Do not breathe dust or fumes.
- P272 Contaminated work clothing should not be allowed out of the workplace
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
- P362+P364 Take off contaminated clothing and wash it before reuse
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 If eye irritation persists: Get medical advice/attention
- P333+P313 If skin irritation or rash occurs: Get medical advice or attention.
- P363 Wash contaminated clothing before reuse
- P501 Dispose of contents and container in accordance with local regulations.

## Hazards not otherwise classified:

None

## SECTION 3: Composition/information on ingredients

| Identification            | Name   | Weight % |
|---------------------------|--|----------|
| CAS number:<br>72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | 3-20     |
| CAS number:<br>24448-20-2 | (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate                       | 15-18    |
| CAS number:<br>109-16-0   | 2,2'-ethylenedioxydiethyl dimethacrylate   | 0.01-7   |

## Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the Canadian Hazardous Products Regulation and WHMIS 2015.

## SECTION 4: First-aid measures

### Description of first-aid measures

#### General notes:

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Show this Safety Data Sheet to the doctor in attendance.

## After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

## After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

## After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

## After ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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

### Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

## Immediate medical attention and special treatment

### Specific treatment:

Not determined or not available.

### Notes for the doctor:

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### Unsuitable extinguishing media:

Do not use water jet.

### Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

### Special protective equipment for firefighters:

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

## Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

## SECTION 6: Accidental release measures

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

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

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

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

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## Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

## Personal protection equipment

### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

## General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|  |                                       |
|--|---------------------------------------|
| <b>Appearance (physical state, color):</b> | Tooth colored viscous/ flowable paste |
| <b>Odor:</b>                               | Ester-like odor                       |
| <b>Odor threshold:</b>                     | Not determined or not available.      |
| <b>pH-value:</b>                           | Not determined or not available.      |
| <b>Melting/Freezing point:</b>             | Not determined or not available.      |
| <b>Boiling point/range:</b>                | Gel before boiling                    |
| <b>Flash point:</b>                        | Not determined or not available.      |
| <b>Evaporation rate:</b>                   | Not determined or not available.      |
| <b>Flammability (solid, gaseous):</b>      | Not determined or not available.      |
| <b>Explosion limit upper:</b>              | Not determined or not available.      |
| <b>Explosion limit lower:</b>              | Not determined or not available.      |
| <b>Vapor pressure:</b>                     | Not determined or not available.      |
| <b>Vapor density:</b>                      | Not determined or not available.      |
| <b>Density:</b>                            | Not determined or not available.      |
| <b>Relative density:</b>                   | 1.5 - 2                               |

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|   |                                  |
|---|----------------------------------|
| <b>Solubilities:</b>                            | Insoluble in water               |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined or not available. |
| <b>Auto/Self-ignition temperature:</b>          | Not determined or not available. |
| <b>Decomposition temperature:</b>               | Not determined or not available. |
| <b>Dynamic viscosity:</b>                       | Not determined or not available. |
| <b>Kinematic viscosity:</b>                     | Not determined or not available. |
| <b>Explosive properties</b>                     | Not determined or not available. |
| <b>Oxidizing properties</b>                     | Not determined or not available. |

## SECTION 10: Stability and reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical stability:

Stable under recommended handling and storage conditions.

### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Incompatible materials:

None known.

### Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

| Name   | Route  | Result   |
|--|--------|--|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | oral   | LD50 Rat: >5000 mg/kg                          |
|  | dermal | LD50 Rat: >2000 mg/kg                          |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | oral   | LD50 Rat: 8300 mg/kg ([Read-across substance]) |
|  | dermal | LD50 Rat: >2000 mg/kg                          |

### Skin corrosion/irritation

#### Assessment:

Causes skin irritation.

#### Product data:

No data available.

#### Substance data:

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| Name   | Result                  |
|--|-------------------------|
| (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate | Causes skin irritation. |

## Serious eye damage/irritation

### Assessment:

Causes serious eye irritation.

### Product data:

No data available.

### Substance data:

| Name   | Result                         |
|--|--------------------------------|
| (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate | Causes serious eye irritation. |

## Respiratory or skin sensitization

### Assessment:

May cause an allergic skin reaction.

### Product data:

No data available.

### Substance data:

| Name   | Result                               |
|--|--------------------------------------|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | May cause an allergic skin reaction. |
| (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate                       | May cause an allergic skin reaction. |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | May cause an allergic skin reaction. |

## Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

## Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

## Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**



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No data available.

**Substance data:** No data available.

## Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

| Name   | Result                            |
|--|-----------------------------------|
| (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate | May cause respiratory irritation. |

## Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

## Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

## Information on likely routes of exposure:

Skin contact; eye contact; ingestion; inhalation.

## Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

## Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name   | Result  |
|--|---|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | Fish LC50 Danio rerio: 10.1 mg/L (96 hr)                                      |
|  | Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr [mobility])       |
|  | Aquatic Plants EC50 Desmodemus subspicatus: >0.68 mg/L (72 hr [growth rate])  |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | Fish LC50 Danio rerio: 16.4 mg/L (96 hr)                                      |
|  | Aquatic Plants EC50 Raphidocelis subcapitata: >100 mg/L (72 hr [growth-rate]) |
|  | Aquatic Plants EC50 Raphidocelis subcapitata: 72.8 mg/L (72 hr [biomass])     |

### Chronic (long-term) toxicity

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**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name                                     | Result  |
|--|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Aquatic Invertebrates EC50 Daphnia magna: 51.9 mg/L (12 d [reproduction]) |

**Persistence and degradability**

**Product data:** No data available.

**Substance data:**

| Name   | Result  |
|--|---|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | The substance is not readily biodegradable. 22% degradation in water, measured by CO2 evolution, after 28 days. |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | The substance is readily biodegradable. 85% degradation, measured by CO2 evolution, after 28 days.              |

**Bioaccumulative potential**

**Product data:** No data available.

**Substance data:**

| Name                                     | Result  |
|--|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Log Kow: 2.3; substance is not expected to bioaccumulate. |

**Mobility in soil**

**Product data:** No data available.

**Substance data:**

| Name   | Result   |
|--|--|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless). |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | Koc at 20 °C: 77.6   |

**Results of PBT and vPvB assessment**

**Product data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance data:**

**PBT assessment:**

|  |                           |
|--|---------------------------|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | The substance is not PBT. |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | The substance is not PBT. |

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## vPvB assessment:

|  |                            |
|--|----------------------------|
| 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | The substance is not vPvB. |
| 2,2'-ethylenedioxydiethyl dimethacrylate   | The substance is not vPvB. |

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport information

### Canadian Transportation of Dangerous Goods (TDG)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number</b>                     | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

### International Maritime Dangerous Goods (IMDG)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number</b>                     | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number</b>                     | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

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| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code |      |
|---|------|
| Bulk Name   | None |
| Ship type   | None |
| Pollution category  | None |

## SECTION 15: Regulatory information

### Canada regulations

#### Domestic substances list (DSL):

|            |  |            |
|------------|--|------------|
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | Not Listed |
| 24448-20-2 | (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate                       | Listed     |
| 109-16-0   | 2,2'-ethylenedioxydiethyl dimethacrylate   | Listed     |

#### Non-domestic substances list (NDSL):

|            |  |            |
|------------|--|------------|
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate | Listed     |
| 24448-20-2 | (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate                       | Not Listed |
| 109-16-0   | 2,2'-ethylenedioxydiethyl dimethacrylate   | Not Listed |

**Additional information:** Not determined.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 07.05.2023

**End of Safety Data Sheet**