

# SAFETY DATA SHEET



## Somos® GP Plus

### Section 1. Identification

<b>GHS product identifier</b>	: Somos® GP Plus
<b>Other means of identification</b>	: Not available.
<b>Product type</b>	: Liquid.
<b>Material uses</b>	: Stereolithography resins for the creation of three-dimensional models and prototypes directly from digital data.
<b>Supplier</b>	: DSM Desotech Inc. 1122 St Charles Street Elgin IL 60120 Tel: +1 (847) 697-0400
<b>e-mail address of person responsible for this SDS</b>	: DSMRESINS.SDS@dsm.com (Communication in English only please)
<b>Emergency telephone number</b>	: DSM Desotech Inc.: +1 (847) 697-0401 (During normal business hours) CHEMTREC (within the USA): (800) 424-9300 (24 hour) CHEMTREC (International): +1 (703) 527-3887 [USA] (24 hour)

### Section 2. Hazards identification

<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

#### GHS label elements

##### **Hazard pictograms**



**Signal word** : Warning

**Hazard statements** : H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.

#### Precautionary statements

<b>Prevention</b>	: P280 - Wear protective gloves: < 1 hour (breakthrough time): (0.12 mm) Nitrile gloves.. Wear eye or face protection. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace.
<b>Response</b>	: P362 + P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 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 or attention.
<b>Storage</b>	: Not applicable.



**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number** : Not applicable.

Ingredient name	%	CAS number
Monomer	50 - 100	-
Monomer	10 - 25	-
Multifunctional Acrylate	5 - 10	-
Multifunctional Acrylate	1 - 5	-
Multifunctional Acrylate	1 - 5	-
Additive	1 - 5	-
antimony compounds	1 - 5	-
antimony compounds	1 - 5	-
Siloxane	0.1-1	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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.**

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

##### Potential acute health effects

**Eye contact** : Causes serious eye irritation.



- Inhalation** : ☒ No known significant effects or critical hazards.  
**Skin contact** : ☒ Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

**Extinguishing media**

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : ☒ In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
metal oxide/oxides  
silicium oxides  
(dense) black smoke  
aldehydes  
organic acids  
halogenated compounds

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- 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.



## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.
- Advice on general occupational hygiene** : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.  
 Keep away from heat and direct sunlight.



## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Monomer	None.
Monomer	None.
Multifunctional Acrylate	None.
Multifunctional Acrylate	None.
Multifunctional Acrylate	None.
Additive	None.
antimony compounds	None. <b>ACGIH TLV (United States, 3/2019).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 0.5 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>ACGIH TLV (United States, 3/2019).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 0.5 mg/m <sup>3</sup> 10 hours.
antimony compounds	None. <b>ACGIH TLV (United States, 3/2019).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 0.5 mg/m <sup>3</sup> , (as Sb) 8 hours. <b>NIOSH REL (United States, 10/2016).</b> TWA: 0.5 mg/m <sup>3</sup> 10 hours.
Siloxane	None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

### Individual protection measures

- Hygiene measures** : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): (0.12 mm) Nitrile gloves.
- Body protection** : 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.



<b>Other skin protection</b>	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
<b>Remarks</b>	: Wear nitrile or other chemical resistant gloves to avoid skin contact when handling partially cured fabricated objects in the "green" state of cure (after initial laser cure). The fabricated objects may be handled without gloves after the object has been thoroughly washed with solvent (e.g. tripropylene glycol monomethyl ether, isopropyl alcohol) followed by exposure to UV light and/or an oven bake at temperatures above 130°C. When sanding fully cured surfaces, suitable respiratory protection for dust should be used. Good general ventilation is required when tooling or sanding to avoid inhalation of particulate matter or airborne particles. Avoid sanding or finishing parts that are not fully cured, as uncured material may cause skin sensitisation or respiratory irritation.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Liquid. [viscous]
<b>Color</b>	: White
<b>Odor</b>	: Characteristic.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Flash point</b>	: Closed cup: >212°F (>100°C) [(estimate)]
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.06 (Water = 1)
<b>Density (g/cm³)</b>	: 1.06 g/cm³ (23°C)
<b>Bulk density</b>	: Not available.
<b>Solubility</b>	: Not available.
<b>Solubility in water</b>	: Not available.
<b>Solubility at room temperature</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Dynamic (room temperature): 289 to 388 mPa·s (289 to 388 cP) Kinematic (room temperature): >1.88 cm²/s (>188 cSt) Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)



## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Keep away from heat and direct sunlight.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : No specific data.
- Remarks** : Keep away from heat and direct sunlight.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Monomer	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat - Female	2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg ( LD0 = 2000 mg/kg )	-
Multifunctional Acrylate	LC0 Inhalation Dusts and mists	Rat - Male, Female	2 mg/l	4 hours
	LC50 Inhalation Dusts and mists	Rat - Male, Female	>2 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg ( LD0 = 2000 mg/kg )	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg ( LD0 = 5000 mg/kg )	-
Multifunctional Acrylate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg ( LD0 2000 mg/kg )	-
	LD50 Oral	Rat - Female	>2000 mg/kg ( LD0 2000 mg/kg )	-
Additive	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
antimony compounds	LD50 Oral	Rat	>5000 mg/kg	-
antimony compounds	LD50 Oral	Rat	>5000 mg/kg	-
Siloxane	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

#### Irritation/Corrosion





Product/ingredient name	Result	Species	Score	Exposure	Observation
Monomer	Skin - Primary dermal irritation index (PDII)	Rabbit	0.8	4 hours 0.5 ml	72 hours
Monomer	Eyes - Non-irritating	Rabbit	1	1 hours 0.1 ml	72 hours
	Skin - Erythema/Eschar	Rabbit	1	4 hours 0.5 ml	24 to 72 hours
	Skin - Edema	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Eyes - Cornea opacity	Rabbit	1	0.1 ml	24 to 72 days
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 days
	Eyes - Redness of the conjunctivae	Rabbit	3	0.1 ml	24 to 72 hours
	Eyes - Edema of the conjunctivae	Rabbit	3	0.1 ml	24 to 72 hours
Multifunctional Acrylate	Skin - Moderate irritant	Mammal - species unspecified	-	-	-
	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Respiratory - Irritant	Mammal - species unspecified	-	-	-
Multifunctional Acrylate	Skin - Edema	Rabbit	0.3	4 hours 0.5 ml	24 to 72 hours
	Skin - Erythema/Eschar	Rabbit	0.96	4 hours 0.5 ml	24 to 72 hours
	Skin - Primary dermal irritation index (PDII)	Rabbit	0	4 hours	-
	Eyes - Cornea opacity	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.22	0.1 ml	24 to 72 hours
	Eyes - Edema of the conjunctivae	Rabbit	0.11	0.1 ml	24 to 72 hours
Multifunctional Acrylate	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Non-irritating	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Eyes - Non-irritating	Rabbit	0	0.1 ml	24 to 72 hours
Additive	Eyes - Irritant	Rabbit	-	-	-
	Skin - Non-irritating	Rabbit	0	-	-
antimony compounds	Skin - Erythema/Eschar	Rabbit	0.8	4 hours 0.5 g	24 to 72 hours
	Skin - Edema	Rabbit	0	4 hours 0.5 g	24 to 72 hours
	Eyes - Cornea opacity	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	1.43	0.1 ml	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.7	0.1 ml	24 to 72 hours
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours 0.5 g	4 hours
antimony compounds	Skin - Edema	Rabbit	0	4 hours 0.5 g	4 hours
	Eyes - Cornea opacity	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	1.43	0.1 ml	24 to 72 hours
	Eyes - Edema of the conjunctivae	Rabbit	0.7	0.1 ml	24 to 72 hours
	Skin - Irritant	Mammal - species unspecified	-	-	-
	Eyes - Irritant	Mammal - species unspecified	-	-	-
Siloxane					

**Sensitization**





Product/ingredient name	Route of exposure	Species	Result
Monomer	skin	Mouse	Sensitizing
Monomer	skin	Guinea pig	Not sensitizing
Multifunctional Acrylate	skin	Mammal - species unspecified	Sensitizing
Multifunctional Acrylate	skin	Mouse	Sensitizing
Multifunctional Acrylate	skin	Guinea pig	Sensitizing
Multifunctional Acrylate	skin	Mouse	Sensitizing
antimony compounds	skin	Guinea pig	Sensitizing
antimony compounds	skin	Guinea pig	Sensitizing
Siloxane	skin	Mammal - species unspecified	Sensitizing

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Monomer	-	Experiment: In vitro Subject: Mammalian-Animal	Positive
Monomer	-	Experiment: In vitro Subject: Bacteria	Negative
Monomer	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: Without & with	Negative
Monomer	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without & with	Negative
Multifunctional Acrylate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: Without & with	Negative
Multifunctional Acrylate	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without & with	Negative
Multifunctional Acrylate	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
Multifunctional Acrylate	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
Multifunctional Acrylate	Mammalian cell gene mutation assay	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without	Positive
Multifunctional Acrylate	Mammalian cell gene mutation assay	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: With	Negative
Multifunctional Acrylate	Mammalian cell gene mutation assay	Experiment: In vivo Subject: Mammalian-Animal	Negative
Additive	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: Without & with	Negative
Additive	OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells <i>in vitro</i>	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without & with	Negative
Additive	OECD 482 Genetic Toxicology: DNA Damage and Repair,	Experiment: In vivo Subject: Mammalian-Animal	Negative



Unscheduled DNA  
Synthesis in Mammalian  
Cells *in vitro*

### **Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
☑ Multifunctional Acrylate	Negative - Oral - NOAEL Negative - Dermal - NOAEL Negative - Oral - NOAEL	Rat - Female Mouse - Male Rat - Male	100 mg/kg /day 100 mg/kg /day 15 mg/kg /day	- - -

### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
☑ Multifunctional Acrylate	-	Negative	-	Rat - Male, Female	Oral: 1000 mg/kg / day NOAEL - Highest tested dose )	-
	-	-	Negative	Rat - Female	Oral: >250 mg/kg / day ( NOAEL )	-
Multifunctional Acrylate	-	Negative	-	Rat - Male, Female	Oral: 750 mg/kg / day ( NOEL )	-
	-	-	Negative	Rabbit - Male, Female	Oral: 180 mg/kg / day ( NOAEL )	-
	-	-	Negative	Rat	Oral: 180 mg/kg / day ( NOAEL )	-
Additive	-	Negative	-	Mouse - Male, Female	Oral: 10100 mg/kg /day	-
	-	Negative	-	Mouse - Male, Female	Oral: 10100 mg/kg /day	-

### **Teratogenicity**

Not available.

### **Specific target organ toxicity (single exposure)**

Name	Category	Route of exposure	Target organs
☑ Multifunctional Acrylate	Category 3	-	Respiratory tract irritation

### **Specific target organ toxicity (repeated exposure)**

Not available.

### **Aspiration hazard**

Not available.

Information on the likely routes of exposure : Not available.

### **Potential acute health effects**



**Eye contact** : Causes serious eye irritation.  
**Inhalation** : ☒ No known significant effects or critical hazards.  
**Skin contact** : ☒ Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
**Ingestion** : No specific data.

#### **Delayed and immediate effects and also chronic effects from short and long term exposure**

##### **Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

##### **Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

##### **Potential chronic health effects**

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> Monomer	Sub-acute NOEL Oral	Rat - Male, Female	1000 mg/kg day	-
Multifunctional Acrylate	Sub-acute NOAEL Oral	Rat - Male, Female	1000 mg/kg /day ( Highest tested dose )	-
Multifunctional Acrylate	Sub-chronic NOAEL Oral	Rat - Male, Female	50 mg/kg /day	-
Additive	Sub-chronic NOEL Dermal	Rat - Female	10 mg/kg /day	-
	Sub-chronic NOEL Dermal	Mouse - Male	100 mg/kg /day	-
	Sub-chronic NOAEL Oral	Rat - Male, Female	>5000 mg/kg /day	90 days; 5 days per week
	Sub-chronic NOAEC Inhalation Dusts and mists	Rat - Male, Female	1000 mg/m <sup>3</sup>	93 days; 6 hours per day 5 days per week

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : ☒ No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

##### **Acute toxicity estimates**



Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Somos® GP Plus	3226.1	4051.8	N/A	N/A	N/A
Monomer	2000	2500	N/A	N/A	N/A
Additive	N/A	2500	N/A	N/A	N/A
Siloxane	2500	2500	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Monomer	EC50 >100 mg/l	Algae	72 hours
	Acute EC50 18.3 mg/l	Daphnia	48 hours
	Acute LC50 11.5 mg/l	Fish	96 hours
	Acute NOEC 10 mg/l	Daphnia	48 hours
Monomer	Acute EC50 6420 mg/l Fresh water	Algae	72 hours
	Acute EC50 6910 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 7500 mg/l Fresh water	Fish	96 hours
Multifunctional Acrylate	Acute EC50 11 mg/l Fresh water	Algae	72 hours
	Acute EC50 37 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 2.7 mg/l Fresh water	Fish	96 hours
Multifunctional Acrylate	NOEC 0.3 mg/l Fresh water	Daphnia	21 days
	Acute EC50 >11 mg/l Fresh water	Algae	72 hours
	Acute EC50 1.7 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 1.2 mg/l Fresh water	Fish	96 hours
Additive	Acute EC50 >900 mg/l Fresh water	Algae	72 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 >1000 mg/l Fresh water	Fish	96 hours
antimony compounds	Acute EC50 0.044 mg/l Fresh water	Algae	72 hours
	Acute EC50 0.68 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 12.6 mg/l Fresh water	Fish	96 hours
antimony compounds	Acute EC50 0.68 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 0.044 mg/l Fresh water	Algae	72 hours
	Acute LC50 12.6 mg/l Fresh water	Fish	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Monomer	-	0.1 % - Not readily - 28 days	-	-
Monomer	OECD 302B	<1 % - 28 days	-	-
	Inherent Biodegradability: Zahn-Wellens/EMPA Test			
	OECD 301B	<1 % - 28 days	-	-
	Ready Biodegradability - CO <sub>2</sub> Evolution Test			
Multifunctional Acrylate	OECD 301F	28 % - 5 days	-	-
	Ready Biodegradability - Manometric Respirometry Test			
Additive	OECD 301B	69.3 % - Readily - 9 days	-	Activated sludge
	Ready			



	Biodegradability - CO <sub>2</sub> Evolution Test		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Monomer	-	-	Not readily
Monomer	-	-	Not readily
Multifunctional Acrylate	-	-	Not readily
Additive	-	-	Readily
antimony compounds	-	-	Not readily
antimony compounds	-	-	Not readily

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Monomer	0.6	-	low
Multifunctional Acrylate	2.41 to 3.87	-	low
Multifunctional Acrylate	2.64 to 3.78	31	low
Additive	-0.48	-	low
antimony compounds	≥2.61	-	low
antimony compounds	≥2.61	-	low

#### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.









### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)], alpha, alpha'-(2,2-dimethyl-1,3-propanediyl)bis [omega-[(1-oxo-2-propen-1-yl)oxy]-,	SUBSTANCIA LIQUIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (Poly[oxy(methyl-1,2-ethanediyl)], alpha, alpha'-(2,2-dimethyl-1,3-propanediyl)bis	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)], alpha, alpha'-(2,2-dimethyl-1,3-propanediyl)bis [omega-[(1-oxo-2-propen-1-yl)oxy]-	Environmentally hazardous substance, liquid, n. o.s. (Poly[oxy(methyl-1,2-ethanediyl)], alpha, alpha'-(2,2-dimethyl-1,3-propanediyl)bis [omega-[(1-oxo-2-propen-1-yl)oxy]-,



		reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) )	[omega-[(1-oxo- 2-propen-1-yl)oxy]-, reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) )	, reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) )	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) )
Transport hazard class(es)	-	9  	9  	9  	9  
Packing group	-	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.	Yes.

**Additional information****TDG Classification**

- : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).  
Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

**Explosive Limit and Limited Quantity Index 5**

**Special provisions** 16, 99

**Mexico Classification**

- : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**Special provisions** 274, 331, 335

**IMDG**

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Emergency schedules** F-A, S-F

**Special provisions** 274, 335, 969

**IATA**

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Quantity limitation** Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964.

Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.

**Special provisions** A97, A158, A197

**Special precautions for user**

- : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments**

- : Not available.



## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.  
**Clean Water Act (CWA) 307**: toluene; antimony compounds; antimony compounds;  
benzene  
**Clean Water Act (CWA) 311**: toluene; benzene

	Product/ingredient name	CAS #	%
<b>Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)</b>	toluene	108-88-3	0.0037935
	antimony compounds	71449-78-0	1.0575
	antimony compounds	89452-37-9	1.0575
	benzene	71-43-2	0.000018

**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

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	antimony compounds	-	Proprietary
	antimony compounds	-	Proprietary
<b>Supplier notification</b>	antimony compounds	-	Proprietary
	antimony compounds	-	Proprietary

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

**Massachusetts** : The following components are listed: antimony compounds

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: antimony compounds; antimony compounds

**Pennsylvania** : The following components are listed: antimony compounds; antimony compounds

### California Prop. 65

**WARNING:** This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
toluene	-	Yes.
Benzene	Yes.	Yes.
bisphenol A	Yes.	-

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		



**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Ingredient name	List name	Status
Not listed.		

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Ingredient name	List name	Status
Not listed.		

**International lists**

Canada inventory : Not determined.

## Section 16. Other information

**History**

Code	: 015847WW39128
Date of printing	: 7/31/2020
Date of issue/Date of revision	: 7/31/2020
Date of previous issue	: 8/24/2018
Version	: 4
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

**Procedure used to derive the classification**

Classification	Justification
SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1	Calculation method Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

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