



**Section 1 - Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product Identifier**  
Trade Name: **duoMatrix® G C-1 Latex**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
General Use: Acrylic Latex  
Restrictions on Use: None known
- 1.3 Details of the supplier of the safety data sheet:**  
Company: Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062  
Telephone: Phone (610) 252-5800  
  
E-mail address: Visit our website at [www.smooth-on.com](http://www.smooth-on.com) or email  
[www.sds@smooth-on.com](mailto:www.sds@smooth-on.com)
- 1.4 Emergency Contact:** Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

**Section 2 – Hazard(s) Identification**

- 2.1 Classification of the substance or mixture**  
Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Regulation (EC) No 1272/2008 and subsequent amendments.
- 2.2 GHS Label elements, including precautionary statements**  
**Pictogram(s):** none  
**Signal word:** none  
  
**General Precautions:**  
  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.
- 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none**

**Section 3 - Composition / Information on Ingredients**

- 3.1 Substances**  
No ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200 criteria.

**Section 4 - First Aid Measures**

- 4.1 Description of first aid measures**  
**Inhalation**  
Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.  
**Eye Contact**

Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact**

In case of skin contact, wash thoroughly with soap and water.

**Ingestion**

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and specific treatment needed.**

None known.

**Section 5 - Fire-Fighting Measures****5.1 Extinguishing Media**

Water Fog, Dry Chemical, and Carbon Dioxide Foam

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

None known.

**5.3 Advice for firefighters**

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

**Section 6 - Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

**6.2 Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

**6.4 Reference to other sections**

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

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

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

### 7.3 Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control parameters

None defined

### 8.2 Exposure controls

#### Respiratory Protection

Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

#### Hand Protection

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

#### Eye Protection

Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### Other Protective Clothing/Equipment

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

#### Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Milky liquid	<b>Vapor pressure:</b>	No data
<b>Odor:</b>	Mild to sweet	<b>Vapor density (Air=1):</b>	>1

<b>pH:</b>	3.0	<b>Evaporation rate:</b>	No data
<b>Flash Point:</b>	No data	<b>Solubility in water:</b>	Soluble
<b>Melting / freezing point:</b>	32°F	<b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b>	1.07
<b>Low / high boiling point:</b>	No data	<b>Relative density:</b>	No data
<b>Upper flammability limits:</b>	No data	<b>Decomposition temperature:</b>	No data
<b>Lower flammability limits:</b>	No data	<b>Viscosity:</b>	<500 centipoise

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

### 10.2 Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Strong bases and acids

### 10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

## Section 11- Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

No data available

#### Skin Corrosion/Irritation

No data available

#### Serious Eye Damage/Irritation

No data available

#### Respiratory/Skin Sensitization

No data available

#### Germ Cell Mutagenicity

No data available

#### Carcinogenicity

No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

**Reproductive Toxicity**

No data available

**Specific Target Organ Toxicity – Single Exposure**

No data available

**Specific Target Organ Toxicity – Repeated Exposure**

No data available

**Aspiration Hazard**

No data available

**Potential Health Effects – Miscellaneous**

No data available

**Section 12 - Ecological Information****12.1 Toxicity**

No data available

**12.2 Persistence and Degradability**

No data available

**12.3 Bioaccumulative Potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other Adverse Effects**

No data available

**Section 13 - Disposal Considerations****13.1 Waste treatment methods**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**Section 14 - Transport Information**

Not regulated by DOT / IMDG / IATA

**Section 15 - Regulatory Information****15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:**

**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of June 2020)**

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**In the United States (EPA Regulations)****TSCA Inventory Status (40 CFR710)**

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**CERCLA Hazardous Substance List (40 CFR 302.4)**

None known.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

None known.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312**

None

**KEEP OUT OF REACH OF CHILDREN**

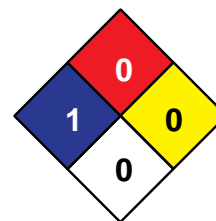
**WARNING:** Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

<b>16 - Other Information</b>	
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HMIS	
H	1
F	0
R	0



**NFPA**

**Full text of H-Statements referred to under Sections 2 and 3.**

None defined.

Revision Date: January 20, 2021 Version 4.0

**Abbreviations and acronyms**

ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer**

The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.



# SAFETY DATA SHEET

## SDS No. 941R

Revision Date: January 20, 2021 Version 4.0

GHS Compliant

### Section 1 - Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Trade Name: **duoMatrix® G C-2 Resin**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General Use: Casting Resin

Restrictions on Use: None known

#### 1.3 Details of the supplier of the safety data sheet:

Company: Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062

Telephone: Phone (610) 252-5800

E-mail address: Visit our website at [www.smooth-on.com](http://www.smooth-on.com) or email  
[www.sds@smooth-on.com](mailto:www.sds@smooth-on.com)

1.4 **Emergency Contact:** Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

### Section 2 – Hazard(s) Identification

#### 2.1 Classification of the substance or mixture:

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

**H315** Skin irritation – Category 2

**H317** Skin sensitization – Category 1

**H350** Carcinogenicity – Category 1A

#### 2.2 GHS Label elements, including precautionary statements



**Pictogram(s):**

**Signal word:** Warning

#### Health Hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

#### General Precautions

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

#### Prevention Precautions

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



**Response Precautions**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

**Storage Precautions**

P405 Store locked up.

**Disposal Precautions**

P501 Dispose of contents/container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

**Section 3 - Composition / Information on Ingredients****3.1 Substances/Mixtures**

The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

Chemical name	Classification	Concentration (% w/w)
<b>Melamine formaldehyde resin</b>		
CAS No. 9003-08-1	Skin Irrit. 2; Skin Sens. 1; Carc. 1A; H315, H317, H350	> 99
<b>Formaldehyde</b>		
CAS No. 50-00-0	Acute Tox. 3; Acute Tox. 3; Acute Tox. 3; Muta. 2; Carc. 1B; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; STOT SE 3; H311, H331, H341, H350, H314, H318, H317, H335	< 1.0

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4 - First Aid Measures****4.1 Description of first aid measures****Inhalation**

Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact**

Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact**

In case of skin contact, wash thoroughly with soap and water.

**Ingestion**

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and specific treatment needed**

None known.

## Section 5 - Fire-Fighting Measures

### 5.1 Extinguishing Media

Water Fog, Dry Chemical, and Carbon Dioxide Foam

### 5.2 Special hazards arising from the substance or mixture

None known.

### 5.3 Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

## Section 6 - Accidental Release Measures

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

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

### 6.2 Environmental precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

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

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

### 6.4 Reference to other sections

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

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

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

### 7.3 Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control parameters

Component	CAS No.	ACGIH TWA	Exposure Limits OSHA PEL	Wt (%)
Melamine Formaldehyde Resin	9003-08-1	10mg/m <sup>3</sup> total dust 5mg/m <sup>3</sup> respir dust	15mg/m <sup>3</sup> total dust 5mg/m <sup>3</sup> respir. dust	>99
Formaldehyde	50-00-0	1 ppm	0.75 ppm	<1.0

### 8.2 Exposure controls

#### Respiratory Protection

Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

#### Hand Protection

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

#### Eye Protection

Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### Other Protective Clothing/Equipment

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

#### Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Off white powder	<b>Vapor pressure:</b>	No data
<b>Odor/Threshold:</b>	Slight Irritating	<b>Vapor density (Air=1):</b>	>1
<b>ph 50% in water:</b>	8 – 10	<b>Evaporation rate:</b>	No data
<b>Flash Point:</b>	>200°F	<b>Solubility in water:</b>	Slight
<b>Melting / freezing point:</b>	221-239°F	<b>Specific Gravity (H2O=1, at 4 °C):</b>	0.65
<b>Low / high boiling point:</b>	No data	<b>% Volatile:</b>	1-2% as water
<b>Upper flammability limits:</b>	No data	<b>Decomposition temperature:</b>	No data
<b>Lower flammability limits:</b>	No data	<b>Viscosity:</b>	No data

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

### 10.2 Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Strong bases and acids

### 10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

## Section 11- Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

Component	Result	Species	Dose
<b>Formaldehyde</b>			
	LD50 Oral	Rat	600 – 800 mg/kg
	LD50 Dermal	Rabbit	270 mg/kg
	LC50 Inhalation	Rat	578 mg/m <sup>3</sup> 4 hours
		Cat	400 mg/m <sup>3</sup> 2 hours

#### Skin Corrosion/Irritation

Prolonged single exposure can produce severe skin irritation or injury.

#### Serious Eye Damage/Irritation

May cause severe eye irritation or injury.

#### Respiratory/Skin Sensitization

This product may be toxic by inhalation.

#### Germ Cell Mutagenicity

No data available

#### Carcinogenicity

Formaldehyde is listed as a probable carcinogen by IARC and OSHA and a suspected carcinogen by NTP. Evidence is based upon animal testing and data on human is inadequate. Formaldehyde vapors have been found to be carcinogenic to animals and are considered possible carcinogenic to humans by inhalation. While the amount of formaldehyde in this product is small < 1% exposure

should be minimized or avoided and recommended personal protection measures should be followed.

**Reproductive Toxicity**

No data available

**Specific Target Organ Toxicity – Single Exposure**

No data available

**Specific Target Organ Toxicity – Repeated Exposure**

No data available

**Aspiration Hazard**

No data available

**Potential Health Effects – Miscellaneous**

No data available

**Section 12 - Ecological Information****12.1 Toxicity**

The evaluation of available toxicity data for fish, aquatic invertebrates and aquatic plants indicates That the potential hazard of melamine formaldehyde resin to aquatic organisms is low.

**12.2 Persistence and Degradability**

Biodegradability of the material is considered to be poor.

**12.3 Bioaccumulative Potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other Adverse Effects**

No data available

**Section 13 - Disposal Considerations****13.1 Waste treatment methods**

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**Section 14 - Transport Information**

Not regulated by DOT / IMDG / IATA

<b>Section 15 - Regulatory Information</b>
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**15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:**

**REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016)**

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**In the United States (EPA Regulations)  
TSCA Inventory Status (40 CFR710)**

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**EPA Regulations:**

**RCRA Hazardous Waste Number:** Not listed (40 CFR 261.33)

**CERCLA Hazardous Substance (40 CFR 302.4)** listed specific per RCRA, Sec. 3001; CWA,

**Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112**

<u>Chemical Name</u>	<u>RQ</u>	<u>% Reportable Component</u>
Formaldehyde	100 lbs.	<1.0

**SARA Toxic Chemical (40 CFR 372.65):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Formaldehyde	50-00-0	<1.0

**SARA EHS (Extremely Hazardous Substance) (40 CFR 355):**

<u>Chemical Name</u>	<u>TPQ</u>	<u>% Reportable Component</u>
Formaldehyde	500 lbs.	<1.0

This product contains the following chemicals that are subject to release reporting requirements under **section 313 of SARA Title III**.

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Formaldehyde	50-00-0	<1.0

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312**

Immediate (Acute), Delayed (Chronic), Fire

**KEEP OUT OF REACH OF CHILDREN**



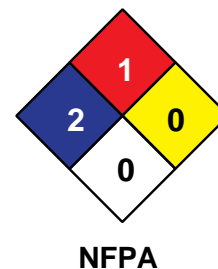
**WARNING:** Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

## 16 - Other Information

HMIS	
H	2
F	1
R	0



NFPA

Revision Date: January 20, 2021 Version 4.0

**Full text of H-Statements referred to under Sections 2 and 3.**

<b>H311</b>	Toxic in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H318</b>	Causes serious eye damage.
<b>H331</b>	Toxic if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H341</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H350</b>	May cause cancer.

**Abbreviations and acronyms**

ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer**

The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

**Section 1 - Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product Identifier**  
Trade Name: **Matrix®-G C-3 Hardener**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
General Use: Concrete Additive  
Restrictions on Use: None known
- 1.3 Details of the supplier of the safety data sheet:**  
Company: Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062  
Telephone: Phone (610) 252-5800  
  
E-mail address: Visit our website at [www.smooth-on.com](http://www.smooth-on.com) or email  
[www.sds@smooth-on.com](mailto:www.sds@smooth-on.com)
- 1.4 Emergency Contact:** Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

**Section 2 – Hazard(s) Identification****2.1 Classification of the substance or mixture:****GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)****H302** Acute Toxicity, oral – Category 4**H319** Eye Irritant – Category 2A**2.2 GHS Label elements, including precautionary statements****Pictogram(s):****Signal word:** Warning**Health Hazards**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**General Precautions**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

**Prevention Precautions**

P264 Wash with soap and water thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response Precautions**P301 + P312 **IF SWALLOWED:** Call a POISON CENTRE/doctor/physician if you feel unwell.P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.



P337 + P313 If eye irritation persists: Get medical advice/attention.

**Disposal Precautions**

P501 Dispose of contents/container in accordance with local, state or federal regulations.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

**Section 3 - Composition / Information on Ingredients**

**3.1 Substances/Mixtures**

The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

Chemical name	Classification	Concentration (% w/w)
<b>Ammonium Chloride</b>		
CAS No. 12125-02-9	Acute Tox. Oral 4; Eye Irrit. 2A; H302, H319	>99.5

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4 - First Aid Measures**

**4.1 Description of first aid measures**

**Inhalation**

Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact**

Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact**

In case of skin contact, wash thoroughly with soap and water.

**Ingestion**

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and specific treatment needed.**

None known.

**Section 5 - Fire-Fighting Measures**

**5.1 Extinguishing Media**

Water Fog, Dry Chemical, and Carbon Dioxide Foam

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

None known.

**5.3 Advice for firefighters**

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

**Section 6 - Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

**6.2 Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

**6.4 Reference to other sections**

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

**Section 7 - Handling and Storage**

**7.1 Precautions for safe handling**

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

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

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

**7.3 Specific end use(s)**

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

**Section 8 - Exposure Controls / Personal Protection**

**8.1 Control parameters  
Ammonium Chloride**

USA ACGIH	ACGIH TWA	10mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL	20mg/m <sup>3</sup>

## 8.2 Exposure controls

### Respiratory Protection

Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

### Hand Protection

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

### Eye Protection

Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

### Other Protective Clothing/Equipment

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

### Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Granular nuggets	<b>Vapor pressure:</b>	No data
<b>Odor:</b>	Odorless	<b>Vapor density (Air=1):</b>	No data
<b>pH:</b>	4.0 – 6.0	<b>Evaporation rate:</b>	No data
<b>Flash Point:</b>	>200 °F	<b>Solubility in water:</b>	100%
<b>Melting / freezing point:</b>	642°F	<b>Specific Gravity (H2O=1, at 4 °C):</b>	1.07
<b>Low / high boiling point:</b>	No data	<b>% Volatile:</b>	0%
<b>Upper flammability limits:</b>	No data	<b>Decomposition temperature:</b>	968°F
<b>Lower flammability limits:</b>	No data	<b>Viscosity:</b>	No data

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

### 10.2 Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur

**10.4 Conditions to avoid**

None known

**10.5 Incompatible materials**

Strong bases and acids

**10.6 Hazardous decomposition products**

Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

<b>Section 11- Toxicological Information</b>
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**11.1 Information on toxicological effects****Acute Toxicity**

Component	Result	Species	Dose
<b>Ammonium Chloride</b>			
	LD50 Oral	Rat	1410 mg/kg
	LD50 Dermal	Rabbit	>2,000 mg/kg

**Skin Corrosion/Irritation**

No skin irritation.

**Serious Eye Damage/Irritation**

Eye irritation.

**Respiratory/Skin Sensitization**

Not expected to be a respiratory sensitizer based on human experience.

**Germ Cell Mutagenicity**

No data available.

**Carcinogenicity**

No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity – Single Exposure**

No data available

**Specific Target Organ Toxicity – Repeated Exposure**

No data available.

**Aspiration Hazard**

No data available

**Potential Health Effects – Miscellaneous**

No data available

<b>Section 12 - Ecological Information</b>
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**12.1 Toxicity**

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 3.98 mg/l - 96 h NOEC - Oncorhynchus mykiss (rainbow trout) - 57 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 161 mg/l - 48 h Growth inhibition NOEC-Daphnia magna (water flea) - 0.1 mg/l - 216 h

**12.2 Persistence and Degradability**

No data available

**12.3 Bioaccumulative Potential**

Not expected to bioaccumulate.

**12.4 Mobility in Soil**

No mobility in soil is expected. Ammonium chloride is highly soluble and dissociates into ammonia and chloride ions.

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other Adverse Effects**

No data available

**Section 13 - Disposal Considerations**

**13.1 Waste treatment methods**

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**Section 14 - Transport Information**

**Not regulated by DOT / IMDG / IATA**

**14.1 UN number**

DOT: - NA	IMDG: - NA	IATA: - NA
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**14.2 UN proper shipping name**

DOT:	NA
IMDG:	NA
IATA:	NA

**14.3 Transport hazard class(s)**

DOT: - NA	IMDG: - NA	IATA: - NA
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**14.4 Packing group**

DOT: - NA	IMDG: - NA	IATA: - NA
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**14.5 Environmental hazards**

DOT: - NA	IMDG: - NA	IATA: - NA
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**14.6 Special precautions for user**

No data available

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

**Section 15 - Regulatory Information****15.1 Safety health and environmental regulations/legislation specific for the substance or mixture:****REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016)**

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

**In the United States (EPA Regulations)****TSCA Inventory Status (40 CFR710)**

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**CERCLA Hazardous Substance List (40 CFR 302.4)**

This product has a reportable quantity of 5000 lbs. Release of more than 5,000 pounds of this product to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675). Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

None known.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312**

Immediate (Acute)

**State Right-to-Know****Component**

Ammonium Chloride

**CAS#**

12125-02-9

**State**

MA, MN, NJ, and PA

**California Proposition 65**

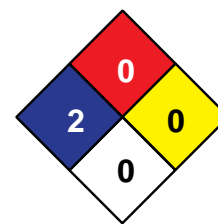
This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

## 16 - Other Information

HMIS	
H	2
F	0
R	0



NFPA

Revision Date: January 20, 2021 Version 3.0

Full text of H-Statements referred to under Sections 2 and 3.

**H302** Harmful if swallowed.  
**H319** Causes serious eye irritation.

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