

Dragon Skin® Series

Composés de silicone - base platine



www.smooth-on.com

SURVOL DU PRODUIT

Les Silicones Dragon Skin® sont des silicones à base platine très performants, utilisés pour une grande variété d'applications. Ils sont conçus pour réaliser des effets de maquillage et de peau et d'autres effets spéciaux pour le cinéma, ainsi que pour la production de moules pour reproduire une variété de matériaux. Dû à ses propriétés physiques supérieures et sa souplesse, il peut être utilisé pour la fabrication de prothèses médicales et orthopédiques, ainsi que pour des applications de rembourrage.

Idéal pour fabriquer des moules pour diverses applications - Les silicones **Dragon Skin®** sont disponibles en durométrie **10A, 20A et 30A** et peuvent être utilisés pour fabriquer des moules exceptionnellement robustes et résistants au déchirement pour couler du plâtre, de la cire, du béton, des résines et d'autres matériaux.

Matériau versatile pour effets spéciaux - Très souple, super robuste et très extensible (jusqu'à plusieurs fois sa grandeur initiale), **Dragon Skin® 10 (prise très rapide, rapide, moyenne et lente)** est utilisé à travers le monde afin de créer des effets spectaculaires. Il peut être coloré en ajoutant les pigments à silicones Silc Pig ou les poudres Cast Magic. Une fois durci, ce matériau peut être peint à l'aide du système de coloration Psycho Paint.

Facile à utiliser - Le ratio de mélange des silicones **Dragon Skin®** est 1A:1B (au poids et au volume). Ce silicone peut devenir plus fluide en ajoutant **Silicone Thinner** ou peut être épaisse en ajoutant **THI-VEX**. Ce silicone durcit à la température ambiante (73°F/23°C) sans retrait important. Le dégazage à vide est recommandé, afin de minimiser les bulles d'air.

PROPRIÉTÉS PHYSIQUES

	Viscosité / mélange (ASTM D-2393)	Gravité Spéc. (ASTM D-1475)	Volume Spéc. (po.³/lb) (ASTM D-1475)	Temps de Travail (ASTM D-2471)	Temps de Prise	Durométrie Éch. "A" (ASTM D-2240)	Résistance/Tension (ASTM D-412)	Coefficient Modulus 100% (ASTM D-412)	Élongation jusqu'à la Rupture % (ASTM D-412)	Résistance au Déchirement - Die B (ASTM D-624)	Retrait (po./po.) (ASTM D-2566)
Dragon Skin® 10 (+ rapide)	23000 cps	1.07	25.8	4 min.	30 min.	10 A	475 psi	22 psi	1000 %	102 pli	< .001 po./po.
Dragon Skin® 10 (rapide)	23000 cps	1.07	25.8	8 min.	75 min.	10 A	475 psi	22 psi	1000 %	102 pli	< .001 po./po.
Dragon Skin® 10 (moyenne)	23000 cps	1.07	25.8	20 min.	5 hres	10 A	475 psi	22 psi	1000 %	102 pli	< .001 po./po.
Dragon Skin® 10 (lente)	23000 cps	1.07	25.8	45 min.	7 hres	10 A	475 psi	22 psi	1000 %	102 pli	< .001 po./po.
Dragon Skin® 20	20000 cps	1.08	25.6	25 min.	4 hres	20 A	550 psi	49 psi	620 %	120 pli	< .001 po./po.
Dragon Skin® 30	30000 cps	1.08	25.7	45 min.	16 hres	30 A	500 psi	86 psi	364 %	108 pli	< .001 po./po.

Ratio du Mélange (au poids & au volume) : **1A : 1B**

Couleur : Translucide

Écart de température/utilisation : -65°F à +450°F (-53°C à +232°C)

Résistance Diélectrique (ASTM D-147-97a) : >350 volts/mil

* Toutes ces données ont été établies à 73°F/23°C

RECOMMANDATIONS

PRÉPARATION.... Sécurité - Utilisez ce produit dans un endroit ventilé adéquatement (ventilation conçue pour une pièce complète). Afin de minimiser les risques de contamination, utilisez des lunettes de sécurité, des manches longues et des gants en vinyle seulement. Ne pas utiliser de gants en latex, car ce dernier peut altérer le durcissement du matériau.

Utiliser et entreposer ce matériau à la température ambiante (73°F/23°C). Utiliser à une température légèrement plus chaude peut réduire drastiquement le temps de travail et de démoulage (prise). Entreposer à une température plus chaude peut réduire aussi la durée de vie en tablette des quantités inutilisées. Ces produits ont une durée de vie limitée et doivent être utilisés le plus tôt possible.

Altération des propriétés physiques du produit - Certains contaminants peuvent altérer les propriétés physiques de ce silicone, tel que le latex, les silicones à base étain, les argiles contenant du soufre, certaines surfaces en bois, du polyester récemment coulé, l'époxy et les uréthanes. Si la compatibilité entre le silicone et la surface est un facteur important dans votre projet, il est recommandé d'effectuer un essai à petite échelle. Appliquer une petite quantité de silicone sur une partie cachée ou peu visible de votre projet. Il y a inhibition si cette application crée un silicone gommant ou un silicone non durci comme il se doit, après le temps de prise prévu ou recommandé.

Parce que 2 applications ne sont jamais vraiment identiques et parce que la performance de ce matériau est un facteur important, il est recommandé de faire un essai à petite échelle afin de déterminer la pertinence d'utiliser ce matériau dans votre projet.

La sécurité d'abord !!

Tous les produits Smooth-On sont sécuritaires, si utilisés tels que recommandés. La fiche signalétique devrait toujours être lue avant d'utiliser les produits Smooth-On.

Garder hors de la portée des enfants

Soyez prudent. Utiliser avec une ventilation adéquate seulement. Le contact avec la peau et les yeux peut causer de sévères irritations. Bien rincer les yeux avec de l'eau pendant 15 minutes et demander immédiatement un avis médical. S'il y a contact avec la peau, enlever le produit à l'aide d'un nettoyant à mains sans eau, puis laver à l'eau et au savon.

Important - Tous les renseignements indiqués dans la présente sont exacts à la date de préparation. Toutefois, aucune garantie n'est exprimée quant à l'exactitude et la justesse de ces données. Les conditions d'utilisation sont hors du contrôle de Smooth-On et de SIAL. Les utilisateurs sont responsables de vérifier eux-mêmes les données conformément à leurs conditions, afin de déterminer si le produit convient aux applications prévues. Les utilisateurs assument tous les risques afférents à l'emploi, la manipulation et l'élimination du produit.

Altération des propriétés physiques du produit (suite) - Pour éviter une inhibition, 1 ou plusieurs couches de laque acrylique transparente appliquée sur votre modèle peut être efficace. Laissez sécher avant d'appliquer le silicone. **NOTE** : Même avec l'application d'un scellant, ne pas utiliser de silicone à base platine avec de l'argile contenant une grande quantité de soufre. Encore une fois, si la compatibilité entre le silicone et la surface est un facteur important dans votre projet, il est recommandé d'effectuer un essai à petite échelle.

Application d'un agent démoluant Quoique non nécessaire habituellement avec **Dragon Skin®**, l'agent démoluant facilitera le démoulage des pièces coulées. Ease Release 200 est un agent démoluant qui a fait ses preuves.

IMPORTANT: Pour assurer une application uniforme de l'agent démoluant, l'appliquer à l'aide d'un pinceau (à poils doux) sur toutes les surfaces de votre modèle. Par la suite, une mince couche d'agent démoluant doit être vaporisée. Laisser sécher 30 minutes. Si vous désirez connaître l'efficacité de la combinaison d'un scellant et d'un agent démoluant sur une surface identique, un essai à petite échelle est recommandé.

MESURE & MÉLANGE....

Avant de commencer, mélangez vigoureusement la partie B du produit. Après avoir mesuré et versé les quantités requises des parties A & B dans votre contenant (1A:1B au volume ou au poids), **mélangez vigoureusement pendant 3 minutes, en racinant à plusieurs reprises les bords et le fond de votre contenant**. Par la suite, un dégazage à vide - 29 po. mercure - (environ 2-3 minutes) est recommandé pour éliminer les bulles d'air.

S'assurer que votre contenant de mélange est suffisamment grand pour laisser le produit prendre toute son expansion (volume).

COULAGE, DURCISSEMENT ET PERFORMANCES....

Coulage - Pour de meilleurs résultats, versez votre mélange en un seul endroit situé au point le plus bas de votre coffrage, en laissant le mélange se répartir par lui-même au-dessus du modèle. **Une coulée uniforme aidera à faire échapper l'air, s'il y a lieu.** Le silicone liquide devrait se niveler à au moins $\frac{1}{2}$ " (1.3 cm) d'épaisseur au-dessus du point le plus élevé de la surface de votre modèle.

Durcissement / Post-durcissement - Avant le démoulage, il est nécessaire de laisser durcir le silicone à la température ambiante (73°F/23°C) durant le temps recommandé. Ne pas laisser durcir votre pièce à une température moindre que 65°F/18°C. **OPTION** : Un post-durcissement aidera à atteindre rapidement toutes les propriétés physiques et performantes maximales du silicone. Après avoir laissé votre pièce durcir à la température ambiante, chauffez-la à 176°F/80°C, durant 2 heures et à 212°F/100°C durant 1 heure. Laisser refroidir à la température ambiante avant d'utiliser.

Si vous coulez dans un moule de silicone : Lors du premier coulage, le silicone produit naturellement des propriétés démolantes. Dépendamment de ce qui a été coulé dans votre moule, après un certain temps, les propriétés démolantes peuvent être altérées et vos tirages peuvent coller. Aucun agent démoluant est nécessaire pour couler de la cire ou du plâtre (gypse). Avant le coulage de polyuréthanes, de polyester et de résines époxydes, l'application d'un agent démoluant, tel que Ease Release 200 est recommandé, afin de prévenir la fragilité de votre moule.

Épaissir le silicone Dragon Skin® - THI-VEX a été conçu spécialement pour épaisser les silicones Smooth-On. THI-VEX permet les applications verticales (applicables au pinceau). Différents degrés de viscosité peuvent être atteints en variant la quantité ajoutée de THI-VEX. Voir la fiche technique de **THI-VEX** pour obtenir les détails complets.

Diluer le silicone Dragon Skin® - Le **Silicone Thinner** de Smooth-On est un produit non-réactif qui diminue la viscosité des silicones, afin de permettre un coulage et un dégazage plus facile. **Un désavantage** est que la résistance à la tension et au déchirement sera réduite en proportion de la quantité de Silicone Thinner utilisée. **Il n'est pas recommandé d'excéder 10% du poids total du mélange (A+B) de silicone.** Voir la fiche technique de **Silicone Thinner** pour obtenir les détails complets.

Performance du moule & entreposage : La durée de vie de votre moule dépend de la façon dont vous l'utilisez (matériau coulé, fréquence, etc.). Couler des matériaux abrasifs, tel que le béton, peut altérer les détails de votre moule plus rapidement que si vous coulez de la cire. Avant l'entreposage, votre moule doit être nettoyé à l'eau savonneuse et séché complètement. Il doit être placé sur une surface droite et de niveau, dans un environnement frais et sec. Les moules fabriqués en 2 parties (ou plus) doivent être entreposés assemblés.



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GHS Compliant

Safety Data Sheet

SDS No. 823A

Section 1 - Identification

1.1 Product Identifier: Part A for: Body Double® & Body Double® SILK; Dragon Skin® Series & F/X Pro; Ecoflex® Series & Gel; Encapso® K; Equinox® Series; EZ Brush® Silicone; EZ-Spray® Silicone Series; Mold Max® Series; Mold Star® Series; OOMOO® Series; PoYo® Putty 40; Psycho Paint®; Rebound® Series; Rubber Glass®; Silicone 1515; Silicone 1603; Silicone 3030; Skin Tite®; Smooth-Sil® Series; Solaris®; SomaFoama® Series; SORTA-Clear® Series; Silicone 1708

1.2 General Use: Silicone Elastomer

1.3 Manufacturer: Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062

Phone (610) 252-5800, FAX (610) 252-6200

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.

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 After first aid, get appropriate in-plant, paramedic, or community medical support.

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:** No special environmental precautions required.
- 6.3 Methods and material for containment and cleaning up:** absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution
- 6.4 Reference to other sections:** if appropriate Sections 8 and 13 shall be referred to.

Section 7 - Handling and Storage

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.
- 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 OSHA 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:** Should a respirator be needed, 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 organic vapor cartridges.
- 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:

Appearance : viscous liquid
Odor/Threshold: Mild to sweet odor
pH: N.A. (non-aqueous)
Melting Point/Freezing Point: N.A.
Low/High Boiling Point: N.A.
Flash Point: >300 °F
Evaporation Rate: Not available
Flammability: f.p. at or above 200 °F
UEL/LEL: Not available

Vapor Pressure: None (Polymeric Resin)
Vapor Density (Air=1): >1
Specific Gravity (H₂O=1, at 4 °C): 1.05-1.15
Water Solubility: Insoluble
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 5,000 – 50,000 centipoise
% Volatile: Nil

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:

Skin Corrosion/Irritation: no data

Serious Eye Damage/Irritation: no data

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

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

Specific Target Organ Toxicity – Single Exposure: no data

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity: no data

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

12.1 Toxicity: no data

12.2 Persistence and Degradability: no data

12.3 Bioaccumulative Potential: no data

12.4 Mobility in Soil: no data

12.5 Results of PBT and vPvB assessment: no data

12.6 Other Adverse Effects: no data

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 do 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, IATA or IMDG

14.1 UN number: none

14.2 UN proper shipping name: none

14.3 Transport hazard class(es): not applicable

14.4 Packing group: not applicable

14.5 Environmental hazards: none known

14.6 Special precautions for user: none known

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:

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

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

SARA 313 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

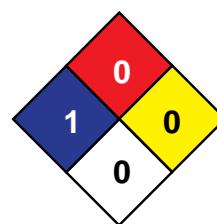
SARA 311/312 Hazards: none

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	1
F	0
R	0



Revision: 7

Date Prepared: March 2, 2017

NFPA

Glossary: 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.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



GHS Compliant

Safety Data Sheet

SDS No. 823B

Section 1 - Identification

1.1 Product Identifier: Part B for: Body Double® & Body Double® SILK; Dragon Skin® Series & F/X Pro; Ecoflex® Series & Gel; Encapso® K; Equinox® Series; EZ Brush® Silicone; EZ-Spray® Silicone Series; Psycho Paint®; Mold Star® Series; OOMOO® Series; Rebound® Series; Rubber Glass®; Skin Tite®; Smooth-Sil® Series; Soma Foama® 15 and 25; Solaris®; SORTA-Clear® Series; Silicone 1603; Silicone 1708

1.2 General Use: Silicone Elastomer Crosslinker

1.3 Manufacturer: Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062

Phone (610) 252-5800, FAX (610) 252-6200

SDS@Smooth-On.com

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

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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.

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 After first aid, get appropriate in-plant, paramedic, or community medical support.

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:** No special environmental precautions required.
- 6.3 Methods and material for containment and cleaning up:** absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution
- 6.4 Reference to other sections:** if appropriate Sections 8 and 13 shall be referred to.

Section 7 - Handling and Storage

- 7.1 Precautions for safe handling:** Use good general housekeeping procedures. Wash hands after use.
- 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 OSHA 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:** Should a respirator be needed, 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 organic vapor cartridges.
- 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:

Appearance : viscous liquid
Odor/Threshold: Mild to sweet odor
pH: N.A. (non-aqueous)
Melting Point/Freezing Point: N.A.
Low/High Boiling Point: N.A.
Flash Point: >300 °F
Evaporation Rate: Not available
Flammability: f.p. at or above 200 °F
UEL/LEL: Not available

Vapor Pressure: None (Polymeric Resin)
Vapor Density (Air=1): >1
Specific Gravity (H₂O=1, at 4 °C): 1.07
Water Solubility: Insoluble
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 5,000 – 50,000 centipoise
% Volatile: Nil

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:

Skin Corrosion/Irritation: no data

Serious Eye Damage/Irritation: no data

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

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

Specific Target Organ Toxicity – Single Exposure: no data

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity: no data

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

12.1 Toxicity: no data

12.2 Persistence and Degradability: no data

12.3 Bioaccumulative Potential: no data

12.4 Mobility in Soil: no data

12.5 Results of PBT and vPvB assessment: no data

12.6 Other Adverse Effects: no data

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 do 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, IATA or IMDG

14.1 UN number: none

14.2 UN proper shipping name: none

14.3 Transport hazard class(es): not applicable

14.4 Packing group: not applicable

14.5 Environmental hazards: none known

14.6 Special precautions for user: none known

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:

In the United States (EPA Regulations):

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

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

SARA 313 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

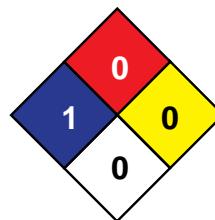
SARA 311/312 Hazards: none

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	1
F	0
R	0



Revision: 8

Date Prepared: March 2, 2017

NFPA

Glossary: 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.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.

CLIENT: SMOOTH-ON INC.
5600 Lower Macungie Road
Lower Macungie, PA 18062

Test Report No: TJ5491	Date: April 24, 2018
------------------------	----------------------

SAMPLE ID: The test samples are identified as “DRAGON SKIN 10”

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on April 03, 2018

TESTING PERIOD: April 11, 2018

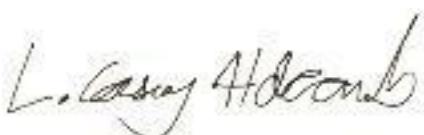
AUTHORIZATION: Proposal 18SP031901 approved on March 29, 2018

TEST PROCEDURE: The submitted sample was tested in accordance with the procedures outlined in UL-94 (2006), “Tests for Flammability of Plastic Materials for Parts and Devices in Appliances” (Horizontal Burning Test, HB Section 7)

TEST RESULTS: Results can be found on the following pages and apply only to the sample tested.

CLASSIFICATION: The sample resulted in a Classification of HB according to section 7.1.3 of UL94.

Prepared By



L. Casey Holcomb
Fire Testing Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**

Fire Lab Project Manager

Page 1 of 2
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TEST RESULTS:

SAMPLE ID	Passed 25-mm Length	Reached 100-mm Length	Time ¹ (min:sec)	Linear Burn Rate ² (mm/min)
Dragon skin 1	No	No	00:00	0
Dragon skin 2	No	No	00:00	0
Dragon skin 3	No	No	00:00	0
AVERAGE	No	No	00:00	0

¹ – References the time to across from the 25-mm mark to the 75-mm mark

² – References the Time¹ per 50-mm length burn

Additional notes: The sample measured 125mm x 13mm x 13mm. The minimum required thickness from the referenced standard is 3.0mm. Sample tested as submitted.

END OF REPORT