

Revision date 10-Jan-2025

SAFETY DATA SHEET

Revision Number 1

1. Identification		
Product identifier		
Product Name	Free Form Detailer Smooth-Solv	
UN number or ID number	1268	
Other means of identification		
Product Code(s) Synonyms	FG-7919 None	
Recommended use of the chemical and restrictions on use		
Recommended use	Sculpting Aid and Solvent.	
Restrictions on use	No information available.	
Details of the supplier of the safety	data sheet	
Manufacturer Smooth-On, Inc, 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com		
E-mail	sds@smooth-on.com	
Emergency telephone number		
Emergency Telephone	CHEMTEL +01-813-248-0585	

2. Hazard(s) identification

<u>Classification</u>	
Flammable liquids	Category 3 - (H226)
Acute toxicity - Oral	Category 5 - (H303)
Acute toxicity - Dermal	Category 5 - (H313)
Acute toxicity - Inhalation (Vapors)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1B - (H350)
Aspiration hazard	Category 1 - (H304)

Label elements Danger

Hazard statements

H226 - Flammable liquid and vapor.

- H304 May be fatal if swallowed and enters airways.
- H303 May be harmful if swallowed.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.



Exclamation mark Health hazard Flame

Precautionary Statements - Prevention

- 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.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P240 Ground and bond container and receiving equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P235 Keep cool.
- P280 Wear protective gloves.

Precautionary Statements - Response

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

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Skin

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363 - Wash contaminated clothing before reuse.

Inhalation

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 - Call a POISON CENTER or doctor.

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 - Do NOT induce vomiting.

Fire

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statements - Storage

P405 - Store locked up.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

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

Other information

Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Naphtha, petroleum, hydrotreated heavy	64742-48-9	80 - 100
2-Butoxyethanol	111-76-2	10 - 20
D-Limonene	5989-27-5	5 - <10

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.	
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.	
Self-protection of the first aider	Remove all sources of ignition Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination Use personal protective equipment as required See section 8 for more information Avoid contact with skin, eyes or clothing Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device Do not breathe vapor or mist	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation.	
Effects of Exposure	May cause cancer. Mutagenic effects.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically. Because of the	

danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures		
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. Yes.	
Special protective actions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
6. Accidental release meas	sures	
Personal precautions, protective ec	uipment and emergency procedures	
Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not breathe vapor or mist.	
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.	
Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
7 Handling and storage		

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Do not breathe vapor or mist. Handle product only in closed system or provide appropriate exhaust ventilation.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

NOM-010-STPS-2014.

Chemical name	Mexico
2-Butoxyethanol 111-76-2	VLE-PPT: 20 ppm
111-70-2	

Biological occupational exposure limits

Chemical name	Mexico
2-Butoxyethanol	200 mg/g creatinine Medium: urine Time: end of work shift
111-76-2	Parameter: Butoxyacetic acid with hydrolysis

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, s	uch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection Skin and body protection	Wear suitable gloves Impervious gloves Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid Liquid clear Mild petroleum / solvent No information available	
Property pH Melting point / freezing point Initial boiling point and boiling rang Flash point Evaporation rate Flammability Flammability Limit in Air Upper flammability or explosive limits	Values No data available No data available geNo data available > 43.889 °C / 111 °F No data available No data available No data available	Remarks • Method None known None known None known None known None known None known
Lower flammability or explosive limits Vapor pressure Relative vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available No data available 0.78 Negligible No data available No data available No data available No data available No data available No data available	None known None known None known None known None known None known None known None known
Other information Oxidizing properties Explosive properties Molecular weight Liquid Density Bulk density	No information available. No information available. No information available No information available No information available	
10. Stability and reactivity Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	

Conditions to avoid Heat, flames and sparks. Excessive heat.

Possibility of hazardous reactions

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

None under normal processing.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Toxic by inhalation. (based on components).	
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.	
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.	
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.	

Redness. May cause redness and tearing of the eyes.

Acute toxicity Toxic by inhalation. May be harmful if swallowed. May be harmful in contact with skin.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,657.10 mg/kg
ATEmix (dermal)	2,375.20 mg/kg
ATEmix (inhalation-vapor)	2.17 mg/l
ATEmix (inhalation-dust/mist)	0.501 mg/l

Unknown acute toxicity Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha, petroleum, hydrotreated	> 6000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
heavy			
64742-48-9			
2-Butoxyethanol	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	3 mg/l (Vapor)
111-76-2			
D-Limonene	= 5200 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
5989-27-5			
	= 4400 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Interactive effects	No information available.
Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization	on May cause an alle	May cause an allergic skin reaction.				
Germ cell mutagenicity		Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.				
Carcinogenicity	ingredients. May o	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.				
The table below indicates whether						
Chemical name	ACGIH	IARC	NTP	Mexico		
2-Butoxyethanol 111-76-2	A3	Group 3	-	A3		
D-Limonene 5989-27-5	-	Group 3	-	-		
IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans Mexico - Secretary of Labor and Social Prevention Official Mexican Norm NOM-010-STPS-2014 Carcinogens A3 - Animal Carcinogen						
Reproductive toxicity		No information available.				
STOT - single exposure	No information av	No information available.				
STOT - repeated exposure	No information av	No information available.				
Target organ effects		Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood, hematopoietic system.				
Aspiration hazard	May be fatal if swa	May be fatal if swallowed and enters airways.				
Other information	with the second state of t					
12. Ecological information						
Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.					
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea		

Chemicarn	ame	Aigae/aqualic plants	F ISH	microorganisms	Crusiacea
Naphtha, petr hydrotreated 64742-48	heavy	-	LC50: =2200mg/L (96h, Pimephales promelas)	-	-
2-Butoxyeth 111-76-		-	LC50: =1490mg/L (96h, Lepomis macrochirus) LC50: =2950mg/L (96h, Lepomis macrochirus)		EC50: >1000mg/L (48h, Daphnia magna)
D-Limone 5989-27		-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-

Persistence and degradability

No information available.

Bioaccumulation

FG-7919

Component Information

Chemical name	Partition coefficient	
2-Butoxyethanol 111-76-2	0.81	
D-Limonene 5989-27-5	4.38	

Other adverse effects

No information available.

13. Disposal consideration	8
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Disposal methods	
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
14. Transport information	
<u>MEX</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	Regulated 1268 Petroleum distillates, n.o.s. (Naphtha Solvent) 3 III
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available
TDG	
DOT	
ICAO (air)	
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	Regulated 1268 Petroleum distillates, n.o.s. (Naphtha Solvent) 3 III
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group	Regulated 1268 Petroleum distillates, n.o.s. (Naphtha Solvent) 3 III

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECI	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

16. Other information							
NFPA <u>HMIS</u> Chronic Hazard Star * = Chronic Health H				Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$		
Key or legend to	abbreviations and acron	lyms used in the s	afety data sł	neet			
Legend SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose							
LegendSection 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELCeilingMaximum limit valueSk*+Sensitizers							
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) Environmental Protection Agency							

Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date 10-Jan-2025

Revision Note

No information available.

NOM-018-STPS-2015

The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet