

Issue Date: 08-Aug-2014

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Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

SDS # SVM-002-EU
Product Code 28094
Product Name GlassClene Pro
 Formula Code: F1042A

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

Recommended Use Glass cleaner

1.3. Details of the Supplier of the Safety Data Sheet

Supplier

ServiceMaster Clean
 3635 Knight Road Ste 7
 Memphis, TN, USA. 38118

For further information, please contact

Contact Point Phone: (901) 597-7602
Email Address neeraj.gupta@servicemaster.com

1.4. Emergency telephone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

2.2. Label Elements

Product Identifier



Signal Word
 Warning

Hazard statements

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H412 - Harmful to aquatic life with long lasting effects
 H226 - Flammable liquid and vapour

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before reuse
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P370 + P378 - In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 MIXTURES**

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
1-Methoxy-2-propanol	Present	107-98-2	10-30	STOT SE 3 (H336) Flam. Liq. 3 (H226)	Not determined
Isopropanol	Present	67-63-0	3-5	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	Not determined
Ammonium hydroxide	Present	1336-21-6	1-5	Skin Corr. 1B (H314) Aquatic Acute 1 (H400)	Not determined

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES**4.1. Description of First Aid Measures****Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. Get medical attention if symptoms persist.
Ingestion	Do NOT induce vomiting. Rinse mouth. Drink 1 or 2 glasses of water. Call a doctor. Never give anything by mouth to an unconscious person.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms	Causes severe eye irritation. Causes skin irritation. May be absorbed through the skin with possible systemic effects. May cause respiratory irritation. Ingestion can cause irritation, nausea, or stomach distress.
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4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically.
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Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media

Dry chemical. Alcohol foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Not determined.

5.2. Special Hazards Arising from the Substance or Mixture

Flammable.

Hazardous combustion products May include but are not limited to: oxides of carbon, oxides of nitrogen, ammonia.

5.3. Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Wear protective clothing as described in Section 8 of this safety data sheet. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

For Emergency Responders

Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Prevent run off to storm sewers and ditches leading to natural waterways. See Section 12 for additional Ecological Information.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Before attempting clean up, refer to hazard data (exposure control and personal protection) in Section 8 of the data sheet.

Methods for Clean-Up

Absorb with inert material and then place in suitable container for chemical waste. Keep in suitable, closed containers for disposal. Contact emergency services and supplier for advice.

6.4. Reference to Other Sections

See Section 13: DISPOSAL CONSIDERATIONS.

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Please also refer to Section 2 under PRECAUTIONARY STATEMENTS - PREVENTION. Use personal protection recommended in Section 8.

General Hygiene Considerations

Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near acids. Oxidisers.

7.3. Specific End Use(s)

Specific Use(s)

Glass cleaner.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
1-Methoxy-2-propanol 107-98-2	S* TWA 100 ppm TWA 375 mg/m ³ STEL 150 ppm STEL 568 mg/m ³	STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin	TWA: 50 ppm TWA: 188 mg/m ³ STEL: 100 ppm STEL: 375 mg/m ³	S* STEL: 150 ppm STEL: 568 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³	TWA: 100 ppm TWA: 370 mg/m ³
Isopropanol 67-63-0	-	STEL: 500 ppm STEL: 1250 mg/m ³ TWA: 400 ppm TWA: 999 mg/m ³	STEL: 400 ppm STEL: 980 mg/m ³	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
1-Methoxy-2-propanol 107-98-2	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin	STEL: 150 ppm STEL: 568 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³	Skin STEL: 563 mg/m ³ TWA: 375 mg/m ³	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin	TWA: 50 ppm TWA: 185 mg/m ³ Skin
Isopropanol 67-63-0	-	STEL: 400 ppm TWA: 200 ppm	-	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	TWA: 200 ppm TWA: 490 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
1-Methoxy-2-propanol 107-98-2	Skin STEL 50 ppm STEL 187 mg/m ³ TWA: 50 ppm TWA: 187 mg/m ³ Ceiling 50 ppm Ceiling 187 mg/m ³	STEL: 200 ppm STEL: 720 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³	STEL: 360 mg/m ³ TWA: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Skin STEL: 75 ppm STEL: 225 mg/m ³	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³
Isopropanol 67-63-0	STEL 800 ppm STEL 2000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	STEL: 1200 mg/m ³ TWA: 900 mg/m ³	TWA: 100 ppm TWA: 245 mg/m ³ STEL: 125 ppm STEL: 306.25 mg/m ³	TWA: 200 ppm STEL: 400 ppm Skin

8.2. Exposure Controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Ventilation systems. Eyewash stations. Showers.
Personal Protective Equipment	
Eye/Face Protection	Chemical splash goggles.
Hand Protection	Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and Body Protection	Suitable protective clothing.
Respiratory Protection	Not usually necessary under conditions of normal use. In case of inadequate ventilation wear respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

Physical state	Liquid	Odour	Strong Ammonia-like
Appearance	Clear green Liquid	Odour Threshold	Not available
Colour	Clear green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.2	
Melting point / freezing point	Not determined	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	40 °C / 104 °F	Tag Closed Cup
Evaporation Rate	Not available	
Flammability (Solid, Gas)	Liquid-not applicable	
Flammability Limit in Air		
Upper flammability or explosive limits	Not available	
Lower flammability or explosive limits	Not available	
Vapour Pressure	Not available	
Vapour Density	Not available	
Relative Density	0.986-0.998	
Water Solubility	completely soluble	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not applicable	
Decomposition temperature	Not determined	
Kinematic viscosity	Water thin	
Dynamic Viscosity	Water thin	
Explosive Properties	Not determined	
Oxidising Properties	Not determined	

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not reactive under normal conditions. Do not mix with other chemicals.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of Hazardous Reactions**Possibility of Hazardous Reactions**

None under normal processing. See below - Incompatible Materials.

10.4. Conditions to Avoid

Keep out of reach of children.

10.5. Incompatible Materials

Acids. Oxidisers.

10.6. Hazardous Decomposition Products

May include but are not limited to: oxides of carbon, oxides of nitrogen, ammonia. when heated to decomposition.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on Toxicological Effects****Acute toxicity****Product Information**

Inhalation	May cause respiratory irritation.
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Ingestion	Do not ingest.

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

ATEmix (oral)	9,386.70 mg/kg
ATEmix (dermal)	48,487.50 mg/kg
ATEmix (inhalation-dust/mist)	1,524.60 mg/L
ATEmix (inhalation-vapour)	243.9821 mg/L

Unknown Acute Toxicity

20 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

2 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

16 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Methoxy-2-propanol	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
Isopropanol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Ammonium hydroxide	= 350 mg/kg (Rat)		

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
1-Methoxy-2-propanol		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static	23300: 48 h Daphnia magna mg/L EC50
Isopropanol	1000: 72 h Desmodemus subspicatus mg/L EC50 1000: 96 h Desmodemus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50
Ammonium hydroxide		8.2: 96 h Pimephales promelas mg/L LC50	0.66: 48 h water flea mg/L EC50 0.66: 48 h Daphnia pulex mg/L EC50

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

The Bioconcentration Factor (BCF) is 200, indicating that the substance is unlikely to bioaccumulate in aquatic organisms.

Chemical name	Partition coefficient
1-Methoxy-2-propanol	-0.437
Isopropanol	0.05

12.4. Mobility in Soil

Mobility

Not determined.

12.5. Results of PBT and vPvB Assessment

Not determined.

12.6. Other Adverse Effects

Not determined.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN number	UN1993
14.2 Proper Shipping Name	Flammable liquid, n.o.s. (Isopropanol)
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
14.5 Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

RID

14.1 UN/ID No	UN1993
14.2 Proper Shipping Name	Flammable liquid, n.o.s. (isopropanol)
14.3 Transport hazard class(es)	3
14.4 Packing Group	III

ADR

14.1 UN number	UN1993
14.2 Proper Shipping Name	Flammable liquid, n.o.s. (isopropanol)
14.3 Transport hazard class(es)	3
14.4 Packing Group	III

IATA

14.1 UN number	UN1993
14.2 Proper Shipping Name	Flammable liquid, n.o.s. (Isopropanol)
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	Marine Pollutant

Section 15: REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**National Regulations**

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
1-Methoxy-2-propanol 107-98-2	RG 84	
Isopropanol 67-63-0	RG 84	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
1-Methoxy-2-propanol 107-98-2 (10-30)	X	X	X	X	X	X	X	X
Isopropanol 67-63-0 (3-5)	X	X	X	X	X	X	X	X
Ammonium hydroxide 1336-21-6 (1-5)	X	X	X	X	X	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapour
 H226 - Flammable liquid and vapour
 H314 - Causes severe skin burns and eye damage
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness
 H400 - Very toxic to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Classification Procedure**

Calculation method

Issue Date: 08-Aug-2014
Revision Date: Not determined
Revision Note: Regulatory update

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2015/830

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