# **SAFETY DATA SHEET**

### 1. Identification

Product identifier: 21002 SSS Glass Cleaner - Ammoniated

Other means of identification SDS number: RE1000025894

### **Recommended restrictions**

Product Use: Cleaner Restrictions on use: Not known.

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name:	Triple S
Address:	2 Executive Park Dr
	Billerica,MA 01862
Telephone:	1-800-323-2251
Fax:	

Emergency telephone number: 1-888-779-1339

### 2. Hazard(s) identification

#### **Hazard Classification**

#### **Physical Hazards**

Flammable aerosol

Category 1

### Label Elements

Hazard Symbol:

Signal Word:	Danger	
Hazard Statement:	Extremely flammable aerosol.	
Precautionary Statements		
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ign sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.	tion
Storage:	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
Hazard(s) not otherwise classified (HNOC):	None.	
SDS_US - RE1000000632		1/12

# 3. Composition/information on ingredients

### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Butane	106-97-8	1 - <5%
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Propane	74-98-6	1 - <5%
Ethanol	64-17-5	0.1 - <1%
Sodium nitrite, Nitrous acid, sodium salt (1:1)	7632-00-0	0.1 - <1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to fresh air.	
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	Any material that contacts the eye should be washed out immediately water. If easy to do, remove contact lenses. If eye irritation persists: Ge medical advice/attention.	
Most important symptoms/effect	cts, acute and delayed	
Symptoms:	No data available.	
Hazards:	No data available.	
Indication of immediate medica	l attention and special treatment needed	
Treatment:	No data available.	
5. Fire-fighting measures		
General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so with risk.	out
General Fire Hazards: Suitable (and unsuitable) exting	protected location. Move containers from fire area if you can do so with risk.	out
	protected location. Move containers from fire area if you can do so with risk.	out
Suitable (and unsuitable) exting Suitable extinguishing	protected location. Move containers from fire area if you can do so with risk. Juishing media	out
Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing	protected location. Move containers from fire area if you can do so with risk. Juishing media Use fire-extinguishing media appropriate for surrounding materials.	
Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from	protected location. Move containers from fire area if you can do so with risk. Juishing media Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire. Vapors may travel considerable distance to a source of ignition and flas back.	
Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from the chemical:	protected location. Move containers from fire area if you can do so with risk. Juishing media Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire. Vapors may travel considerable distance to a source of ignition and flas back.	

Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measures	8	
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.	
Methods and material for containment and cleaning up:	Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.	
Notification Procedures:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.	
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.	
7. Handling and storage		
Precautions for safe handling:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.	
Conditions for safe storage, including any incompatibilities:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1	

# 8. Exposure controls/personal protection

# **Control Parameters**

### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Lin	nit Values	Source
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanol	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (2009)
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm		US. ACGIH Threshold Limit Values (2008)

	TWA	25 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
2-Propanol, 2-methyl-	STEL	150 ppm	450 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	300 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	150 ppm	450 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm	300 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)

### **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)

#### Appropriate Engineering Controls

Individual protection measures, such as personal protective equipment

No data available.

General information:	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	No data available.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	When using do not smoke. Observe good industrial hygiene practices.

### 9. Physical and chemical properties

### Appearance

Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	-104.44 °C

Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	3,447.3786 - 4,826.3301 hPa (20 °C)
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

# 11. Toxicological information

nformation on likely routes of exposure Inhalation: No data available.	
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

# Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

SDS\_US - RE100000632

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)		
Oral Product:	ATEmix: 37,600.14 mg/kg	
Dermal Product:	ATEmix: 23,652.48 mg/kg	
Inhalation Product:	ATEmix: 709.22 mg/l ATEmix : 177.3 mg/l	
Repeated dose toxicity Product:	No data available.	
Specified substance(s):		
Butane	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study	
Ethanol, 2-butoxy-	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation	
Propane	Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation	
Ethanol	Experimental result, Key study NOAEL (Rat(Male), Oral, 7 - 14 Weeks): 10 %(m) Oral Experimental result, Key study	
Sodium nitrite, Nitrous acid, sodium salt (1:1)	NOAEL (Rat(Male), Oral, 2 yr): 10 mg/kg Oral Experimental result, Supporting study LOAEL (Rat(Male), Oral, 14 Weeks): 115 mg/kg Oral Experimental result, Weight of Evidence study	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Ethanol, 2-butoxy-	in vivo (Rabbit): Irritating Experimental result, Key study	
Ethanol	in vivo (Rabbit): Not irritant Experimental result, Key study	
Sodium nitrite, Nitrous acid, sodium salt (1:1)	in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study	

Serious	Eye	Damage/Eye	Irritation
---------	-----	------------	------------

Product: Specified substance(s):	No data available.
Ethanol, 2-butoxy-	Rabbit, 24 - 72 hrs: Irritating
Ethanol	Rabbit, 1 - 24 hrs: Not irritating
Respiratory or Skin Sensitization	

Product: No data available.

<b>Specified substance(s):</b> Ethanol, 2-butoxy- Ethanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising		
Carcinogenicity Product:	No data available.		
	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
	US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
In vivo Product:	No data available.		
Reproductive toxicity Product:	No data available.		
Specific Target Organ Toxicity Product:	- Single Exposure No data available.		
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.		
Aspiration Hazard Product:	No data available.		
Other effects:	No data available.		
12. Ecological information			

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:	No data available.
<b>Specified substance(s):</b> Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Ethanol, 2-butoxy-	LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Ethanol	LC 50 (Pimephales promelas, 96 h): 15.3 g/l Experimental result, Key study
Sodium nitrite, Nitrous acid, sodium salt (1:1)	LC 50 (Oncorhynchus mykiss, 96 h): 0.54 - 26.3 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.

SDS\_US - RE100000632

Version: 1.0 Revision Date: 09/25/2019

<b>Specified substance(s):</b> Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Ethanol 2-butoxy-	EC 50 (Daphnia magna, 48 h): 1 550 mg/l Experimental result. K

Ethanol, 2-butoxy-	EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study
Ethanol	LC 50 (Ceriodaphnia dubia, 48 h): 5,012 mg/l Experimental result, Key study
Sodium nitrite, Nitrous acid, sodium salt (1:1)	EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study

### Chronic hazards to the aquatic environment:

Fish Product:	No data available.	
<b>Specified substance(s):</b> Ethanol, 2-butoxy-	NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study	
Ethanol	NOAEL (Oryzias latipes): 7,900 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study	
Sodium nitrite, Nitrous acid, sodium salt (1:1)	NOAEL (Cyprinus carpio): 1.05 mg/l Experimental result, Key study	
Aquatic Invertebrates Product:	No data available.	
<b>Specified substance(s):</b> Ethanol, 2-butoxy-	EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study	
Ethanol	LC 50 (Daphnia magna): 454 mg/l Experimental result, Key study NOAEL (Daphnia magna): 9.6 mg/l Experimental result, Key study	
Sodium nitrite, Nitrous acid, sodium salt (1:1)	NOAEL (Penaeus monodon): 2 mg/l Experimental result, Key study EC 50 (Penaeus monodon): 114.9 mg/l Experimental result, Key study LC 50 (Penaeus monodon): > 95.6 mg/l Experimental result, Key study	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
<b>Specified substance(s):</b> Butane	100 % (385.5 h) Detected in water. Experimental result, Key study	
Ethanol, 2-butoxy-	90.4 % Detected in water. Experimental result, Key study	
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study	
Ethanol	95 % Detected in water. Experimental result, Key study	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BCF) Product: No data available.		

<b>Specified substance(s):</b> Ethanol	Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Read- across from supporting substance (structural analogue or surrogate), Supporting study
Partition Coefficient n-octanol / w Product:	<b>vater (log Kow)</b> No data available.
Mobility in soil:	No data available.
Known or predicted distribu Butane Ethanol, 2-butoxy- Propane Ethanol Sodium nitrite, Nitrous acid, sodium salt (1:1)	<b>tion to environmental compartments</b> No data available. No data available. No data available. No data available. No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Wash before disposal. Dispose to controlled facilities.
Contaminated Packaging:	No data available.
14. Transport information	
DOT	
UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant: Environmental Hazards:	UN 1950 Aerosols, flammable 2.1 – II No No
Marine Pollutant	No

Special precautions for user:

# IMDG

IMDG	
UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	_
EmS No.:	
Packing Group:	-
Environmental Hazards: Marine Pollutant	No No
Special precautions for user:	Not regulated.
IATA UN Number:	UN 1950

Not regulated.

Transport Hazard Class(es): Class: Label(s): Packing Group:	2.1 - -
Environmental Hazards: Marine Pollutant	No No
Special precautions for user:	Not regulated.

### 15. Regulatory information

#### **US Federal Regulations**

Restrictions on use: Not known.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Butane	lbs. 100
Propane	lbs. 100
Ethanol	lbs. 100
Sodium nitrite, Nitrous acid, sodium salt (1:1)	lbs. 100
Ammonium hydroxide ((NH4)(OH))	lbs. 1000
2-Propanol, 2-methyl-	lbs. 100

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Fire Hazard Flammable aerosol

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification	
Chemical Identity	Reportable quantity
Butane	lbs. 100
Ethanol, 2-butoxy-	
Propane	lbs. 100
Ethanol	lbs. 100
Sodium nitrite, Nitrous acid, sodium salt (1:1)	lbs. 100
Ammonium hydroxide ((NH4)(OH))	lbs. 1000
2-Propanol, 2-methyl-	lbs. 100
SARA 311/312 Hazardous Chemical	
SARA 311/312 Hazardous Chemical Chemical Identity	Threshold Planning Quantity
	Threshold Planning Quantity 10000 lbs
Chemical Identity	
<u>Chemical Identity</u> Butane	10000 lbs
<u>Chemical Identity</u> Butane Ethanol, 2-butoxy-	10000 lbs 10000 lbs
<u>Chemical Identity</u> Butane Ethanol, 2-butoxy- Propane	10000 lbs 10000 lbs 10000 lbs
<u>Chemical Identity</u> Butane Ethanol, 2-butoxy- Propane Ethanol	10000 lbs 10000 lbs 10000 lbs 10000 lbs
<u>Chemical Identity</u> Butane Ethanol, 2-butoxy- Propane Ethanol Sodium nitrite, Nitrous acid, sodium salt (1:1)	10000 lbs 10000 lbs 10000 lbs 10000 lbs 10000 lbs

### SARA 313 (TRI Reporting)

······································	Reporting threshold	Reporting threshold for
Chemical Identity	for other users	manufacturing and processing
Ethanol, 2-butoxy-	N230 lbs	N230 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) US State Regulations

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

1,6-Octadiene, 7-methyl-3- Carcinogenic. 03 2015 methylene-

#### US. New Jersey Worker and Community Right-to-Know Act

#### <u>Chemical Identity</u> Butane Ethanol, 2-butoxy-Propane Ethanol

# US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Butane Ethanol, 2-butoxy-Propane

### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

## Kyoto protocol

Not applicable

Inventory Status: Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Ontario Inventory:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

# 16.Other information, including date of preparation or last revision

Issue Date:	09/25/2019
Revision Information:	No data available.
Version #:	1.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.