

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product number NL764-A12  
Material name **NYCO SANI SPRITZ FOAMING DISINFECTANT CLEANER**  
Revision date 07-28-2014  
Company information NYCO PRODUCTS COMPANY  
5332 DANSHER RD  
COUNTRYSIDE, IL 60525 United States  
Company phone 800 752 4754  
Emergency telephone US 1-866-836-8855  
Emergency telephone outside US 1-952-852-4646  
Version # 03  
Supersedes date 01-20-2014  
Expiry Date 09-Jan-2017  
Product use Cleaner

## 2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE.  
Aerosol. Pressurized container may explode when exposed to heat or flame. May be fatal if inhaled or swallowed.  
Very toxic. Corrosive. Causes skin and eye burns. Cancer hazard. Prolonged exposure may cause chronic effects.

Potential health effects  
Routes of exposure Ingestion. Skin contact. Eye contact.  
Eyes Causes chemical burns. Corrosive to the eyes and may cause severe damage including blindness. Avoid contact with eyes. Can cause severe eye irritation.  
Skin Causes chemical burns. May be harmful if absorbed through skin. Do not get this material in contact with skin.  
Inhalation May cause cancer by inhalation. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Can cause severe respiratory irritation.  
Ingestion May be fatal if swallowed. Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion. Ingestion causes burns of the upper digestive and respiratory tracts. Do not ingest.

Target organs Central nervous system. Lungs. Respiratory system.  
2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms Contact with this material will cause burns to the skin, eyes and mucous membranes. Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethylene Glycol Monobutyl Ether	111-76-2	3 - 7
Butane	106-97-8	1 - 5

Product name: NYCO SANI SPRITZ

Product #: 0889, 0887, 1000008356, 1000008403, 1000008168 Version #: 03 Revision date: 07-28-2014 Issue date: 01-20-2014

MSDS CANADA

1 / 9

Components	CAS #	Percent
EDTA Tertrasodium Salt	64-02-8	0.5 - 1.5
Other components below reportable levels		60 - 100

#### 4. First Aid Measures

##### First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison control center immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Call a physician or poison control center immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

##### Notes to physician

In case of shortness of breath, give oxygen. Symptoms may be delayed.

##### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

#### 5. Fire Fighting Measures

##### Flammable properties

Ruptured cylinders may rocket.

##### Extinguishing media

Suitable extinguishing media Water.

Unsuitable extinguishing media Not available.

##### Protection of firefighters

Specific hazards arising from the chemical Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not direct water at source of leak or safety devices as icing may occur. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue.

##### Specific methods

Cool containers exposed to flames with water until well after the fire is out.

##### Explosion data

Sensitivity to static discharge Not available.

Sensitivity to mechanical impact Not available.

##### Hazardous combustion products

Not available.

## 6. Accidental Release Measures

Personal precautions	Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Ventilate the area. Should not be released into the environment. Stop the flow of material, if this is without risk. Isolate area until gas has dispersed. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Ground and bond containers when transferring material. Do not re-use empty containers. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not use in areas without adequate ventilation. Wash thoroughly after handling.
Storage	Keep locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol (NFPA 30B)

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
------------	------	-------

Butane (CAS 106-97-8)	STEL	1000 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
------------	------	-------

Butane (CAS 106-97-8)	TWA	1000 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
------------	------	-------

Butane (CAS 106-97-8)	STEL	750 ppm
	TWA	600 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
------------	------	-------

Butane (CAS 106-97-8)	STEL	1000 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Butane (CAS 106-97-8)	TWA	800 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm
Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)		
Components	Type	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	97 mg/m3 20 ppm
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	PEL	240 mg/m3 50 ppm

Biological limit values

ACGIH Biological Exposure Indices Components	Value	Determinant	Specimen	Sampling Time
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - For sampling details, please see the source document.

- Engineering controls** Ensure adequate ventilation, especially in confined areas.
- Personal protective equipment**
- Eye/face protection** Do not get in eyes. Face-shield.
  - Skin protection** Do not get this material in contact with skin. Wear chemical protective equipment that is specifically recommended by the manufacturer.
  - Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
  - Hand protection** Wear protective gloves.

9. Physical & Chemical Properties

Appearance

Physical state	Liquid. Form Aerosol. Color Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	55 - 75 psig @70F estimated
Vapor density	Not available.
Boiling point	212 °F (100 °C) estimated
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	0.979 estimated
Relative density	Not available.
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.

Auto-ignition temperature	Not available.
Evaporation rate	Not available.
Partition coefficient (n-octanol/water)	Not available.

## 10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals.
Incompatible materials	Oxidizing agents. Acids.
Hazardous decomposition products	Not available.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Product	Species	Test Results	
<b>Germicidal Cleaner (CAS Mixture)</b>			
Acute Dermal LD50	Guinea pig	4790.1694 ml/kg, 24 Hours estimated 152.0358 ml/kg, 4 Days estimated	
	Rabbit	3126.938 ml/kg, 24 Hours estimated	
	Rat	40844.5 mg/kg, 24 Hours estimated	
	Inhalation LC100 LC50	Cat	3000 % estimated
Mouse		41233.332 mg/l, 120 Minutes estimated 1733.3334 %, 120 Minutes estimated 533.3334 mm/l, 2 Hours estimated	
		Rabbit	8330.7305 ppm, 7 Hours estimated
Rat		9174.0068 ppm, 4 Hours estimated 849.9725 mg/l, 4 Hours estimated 849.9725 mg/l, 6 Hours estimated 45.7443 mg/l/4h estimated	
		Oral LD100 LD50	Rabbit
Dog			14474.6436 mg/kg estimated 24944.7617 mg/kg estimated
	Rat		14281.9365 ml/kg estimated 10400.0576 mg/kg estimated
<b>Components</b>			
<b>Butane (CAS 106-97-8)</b>			
Acute Inhalation LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes	
		Rat	1355 mg/l

Components	Species	Test Results
EDTA Tetrasodium Salt (CAS 64-02-8)		
Acute		
Oral		
LD50	Rat	1658 mg/kg
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		
Acute		
Dermal		
LD50	Guinea pig	230 ml/kg, 24 Hours
		7.3 ml/kg, 4 Days
	Rabbit	450 ml/kg, 24 Hours
		435 mg/kg, 24 Hours
		220 mg/kg
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
		2.21 mg/l/4h
Oral		
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1200 mg/kg
	Rat	530 - 2800 mg/kg
		470 mg/kg
Acute effects	Causes burns.	
Sensitization	Not available.	
Local effects	May produce corrosive solutions on contact with water.	
Chronic effects	Hazardous by WHMIS criteria. May be harmful if absorbed through skin.	
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.	
	Prolonged exposure may cause chronic effects.	
Carcinogenicity	Hazardous by WHMIS criteria. Cancer hazard.	
ACGIH Carcinogens		
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		A3 Confirmed animal carcinogen with unknown relevance to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		3 Not classifiable as to carcinogenicity to humans.
Skin corrosion/irritation	Corrosive effects.	
Serious eye damage/irritation	Not available.	
Mutagenicity	Not available.	
Reproductive effects	Not available.	
Teratogenicity	Not available.	
Synergistic materials	Not available.	

## 12. Ecological Information

### Ecotoxicological data

Product		Species	Test Results
Germicidal Cleaner (CAS Mixture)			
Aquatic			
Algae	IC50	Algae	86.2182 mg/L, 72 Hours estimated
Crustacea	EC50	Daphnia	17811.9492 mg/L, 48 Hours estimated
Fish	LC50	Fish	1165.0076 mg/L, 96 Hours estimated
Components			
Species			
Test Results			

### EDTA Tertrasodium Salt (CAS 64-02-8)

#### Aquatic

Algae	IC50	Algae	1.01 mg/L, 72 Hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	472 - 500 mg/l, 96 hours

### Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

#### Aquatic

Crustacea	EC50	Daphnia	1819 mg/L, 48 Hours
Fish	LC50	Inland silverside ( <i>Menidia beryllina</i> )	1250 mg/l, 96 hours

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	Not available.
Persistence and degradability	Not available.
Partition coefficient	
Butane	2.89
Ethylene Glycol Monobutyl Ether	0.83

## 13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport Information

### TDG

UN number	UN1950
UN proper shipping name	AEROSOLS, non-flammable, containing substances in Class 8, packing group III
Transport hazard class(es)	
Class	2.2
Subsidiary risk	8
Packing group	Not applicable.
Environmental hazards	D
Special precautions for user	Not available.

### IATA

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, containing substances in Class 8, Packing Group III
Transport hazard class(es)	
Class	2.2
Subsidiary risk	8
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2C

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, MSDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.2

Subsidiary risk 8

Label(s) Packing None

group Environmental hazards Not applicable.

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, MSDS and emergency procedures before handling.

IATA; IMDG; TDG



## 15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification  
A - Compressed Gas  
D1A - Immediate/Serious-VERY TOXIC  
D1B - Immediate/Serious-TOXIC  
D2A - Other Toxic Effects-VERY TOXIC  
D2B - Other Toxic Effects-TOXIC  
E - Corrosive

WHMIS labeling



International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCSC)	Yes
Korea	Existing Chemicals List (ECL)	No



Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other Information

Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. 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.
Prepared by	Not available.
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Product and Company Identification Physical & Chemical Properties: Multiple Properties GHS: Classification