SAFETY DATA SHEET

1. Identification

Product number	N-02118
Product identifier	PRO SERIES 89 DISINFECTANT CLEANER
Revision date	04-18-2016
Company information	NASSCO 5365 SOUTH MOORLAND ROAD NEW BERLIN, WI 53151 United States
Company phone	General Assistance 800-729-6726
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	02
Supersedes date	04-06-2016
Recommended use	PESTICIDE
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2
OSHA defined hazards	Not classified.	
Label elements	\wedge	



Signal word	Danger		
Hazard statement	Extremely flammable aerosol. Causes serious eye irritation.		
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye protection/face protection.		
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.		
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Butane		106-97-8	1 - 2.5
EDTA Tetrasodium Salt		64-02-8	1 - 2.5
Isopropyl Alcohol		67-63-0	1 - 2.5

Chemical name	Common name and synonyms	CAS number	%
Alkyl(c12-14)dimethyl(ethylbenzyl)a mmonium Chloride	a	85409-23-0	0.1 - 1
N-Alkyl-N,N-Dimethyl-N-Benzylam monium Chloride		68391-01-5	0.1 - 1
Other components below reportable	e levels		90 - 100

____ Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Contents under pressure.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
6. Accidental release meas	sures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Environmental precautions	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe 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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding
	50°C/122 °F. 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 away from incompatible materials (see Section 10 of

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value

the SDS).

Components	lyp	e	Va	lue	
2-Butoxyethanol (CAS 111-76-2)	PEI	-	24	0 mg/m3	
- /			50	ppm	
Isopropyl Alcohol (CAS 67-63-0)	PEI	-	98	0 mg/m3	
			40	0 ppm	
US. ACGIH Threshold Li	mit Values				
Components	Тур	e	Va	lue	
2-Butoxyethanol (CAS 111-76-2)	TW	A	20	ppm	
Butane (CAS 106-97-8)	STE	EL	10	00 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STE	EL	40	0 ppm	
,	TW	A	20	0 ppm	
US. NIOSH: Pocket Guid					
Components	Тур	e	Va	lue	
2-Butoxyethanol (CAS 111-76-2)	TW	A	24	mg/m3	
				opm	
Butane (CAS 106-97-8)	TW	A		00 mg/m3	
	0.77	-,		0 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STE	ΞL		25 mg/m3	
				0 ppm	
	TW	A		0 mg/m3	
			40	0 ppm	
logical limit values					
ACGIH Biological Expos Components	Value	Determinant	Specimen	Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* - For sampling details, p	lease see the source do	cument.			
oosure guidelines					
US - California OELs: Sk	kin designation				
2-Butoxyethanol (CA	S 111-76-2)	Can be	e absorbed throu	gh the skin.	

US - Minnesota Haz Subs: S	kin designation applies	
2-Butoxyethanol (CAS 111-76-2)		Skin designation applies.
US - Tennessee OELs: Skin	designation	
2-Butoxyethanol (CAS 11		Can be absorbed through the skin.
US NIOSH Pocket Guide to (Chemical Hazards: Skin design	ation
2-Butoxyethanol (CAS 11		Can be absorbed through the skin.
US. OSHA Table Z-1 Limits f	or Air Contaminants (29 CFR 1	910.1000)
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed through the skin.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.	
Individual protection measures,	such as personal protective ed	quipment
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing.	
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
eneral hygiene When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance		
Physical state	Gas.	
Form	Aerosol.	
Color	Yellow.	
Odor	Characteristic.	
Odor threshold	Not available.	
рН	11.8 - 12.8 estimated	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	212 °F (100 °C) estimated	
Flash point	-156.0 °F (-104.4 °C) Propellant estimated	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	60 - 70 psig @ 70F estimated	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.979 estimated estimated

10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Acids. Strong oxidizing agents. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	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.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	Harmful if swallowed, in contact with skin or if inhaled.	
Product	Species	Test Results
19 OZ NASSCO PRO DISN	NF CNTRY FSH LB 12PK	
<u>Acute</u>		
Dermal		
LD50	Rat	4536 mg/kg
Inhalation		
LC50	Rat	44 mg/l/4h
Oral		
LD50	Rat	
Components	Species	Test Results
2-Butoxyethanol (CAS 111-	-76-2)	
<u>Acute</u>		
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days
		0.23 ml/kg, 24 Hours
	Rabbit	435 mg/kg, 24 Hours
		0.68 ml/kg, 24 Hours
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours

Components	Species	Test Results	
Inhalation			
LC50	Rabbit	400 ppm, 7 Hours	
	Rat	450 ppm, 4 Hours	
Oral			
LD100	Rabbit	695 mg/kg	
LD50	Dog	> 695 mg/kg	
	Guinea pig	1414 mg/kg	
	Mouse	1519 mg/kg	
	Rat	1746 mg/kg	
Butane (CAS 106-97-8)			
<u>Acute</u>			
Inhalation			
LC50	Mouse	1237 mg/l, 120 Minutes	
		52 %, 120 Minutes	
	Rat	1355 mg/l	
EDTA Tetrasodium Salt (CAS 64-	02-8)		
<u>Acute</u>			
Oral			
LD50	Rat	1658 mg/kg	
Isopropyl Alcohol (CAS 67-63-0) <u>Acute</u>			
Dermal			
LD50	Rabbit	16.4 ml/kg, 24 Hours	
Inhalation	D-4		
LC50	Rat	> 10000 ppm, 6 Hours	
Oral LD50	Rat	5.84 g/kg	
EDSO	Nat	3.0 4 g/kg	
* Estimates for product may b	be based on additional component data not sh	iown.	
Skin corrosion/irritation	Prolonged skin contact may cause tempora	ary irritation. Irritating to skin.	
Serious eye damage/eye irritation	Risk of serious damage to eyes.		
Respiratory or skin sensitizatio			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin		
Germ cell mutagenicity	mutagenic or genotoxic.	y components present at greater than 0.1% are	
Carcinogenicity	This product is not considered to be a carc	inogen by IARC, ACGIH, NTP, or OSHA.	
2-Butoxyethanol (CAS 1	Evaluation of Carcinogenicity 11-76-2) 3 Not class ed Substances (29 CFR 1910.1001-1050)	ifiable as to carcinogenicity to humans.	
Not regulated.	eu Substances (29 CH (1910.1001-1030)		
•	ogram (NTP) Report on Carcinogens		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not applicable.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not likely, due to the form of the product.		

Prolonged inhalation may be harmful. 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.

12. Ecological information

12. Ecological informatio		containe a substance which may save the	ng torm advarge offects in the environment	
	The product	-	ng-term adverse effects in the environmer	
Product		Species	Test Results	
19 OZ NASSCO PRO DISNI Aquatic	- CNIRY FSHI	B 12PK		
Algae	IC50	Algae	86.0535 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	43604 mg/L, 48 Hours	
Fish	LC50	Fish	1165 mg/L, 96 Hours	
-	LC30	-	Test Results	
Components 2-Butoxyethanol (CAS 111-7	76.2)	Species		
Aquatic	0-2)			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	
EDTA Tetrasodium Salt (CA				
Aquatic				
Algae	IC50	Algae	1.01 mg/L, 72 Hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours	
Isopropyl Alcohol (CAS 67-6	3-0)			
Aquatic				
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	
* Estimates for product may	be based on ad	ditional component data not shown.		
ersistence and degradability		ailable on the degradability of this produc	t.	
Bioaccumulative potential	No data avai			
Partition coefficient n-octa	nol / water (log	Kow)		
2-Butoxyethanol		0.83		
Butane Isopropyl Alcohol		2.89 0.05		
obility in soil	No data avai			
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation		
		potential, endocrine disruption, global warming potential) are expected from this component.		
3. Disposal consideration	ons			
isposal instructions		eclaim or dispose in sealed containers at	licensed waste disposal site. Contents	
	under pressu	under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.		
ocal disposal regulations	Dispose in a	ccordance with all applicable regulations.		
azardous waste code	The waste co disposal com	ode should be assigned in discussion betv pany.	ween the user, the producer and the waste	
Vaste from residues / unused products	product resid	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	emptied. Em	ed containers may retain product residue, pty containers should be taken to an appr not re-use empty containers.		

14. Transport information

UN number

DOT

UN1950

UN proper shipping name Transport hazard class(es)	Aerosols, flammable, (each not exceeding 1 L capacity)
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and the IBC Code	



15. Regulatory information

5. Regulatory mormation			
S federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Export N	lotification (40 CFR 707,	Subpt. D)	
Not regulated.			
CERCLA Hazardous Substar	nce List (40 CFR 302.4)		
Not listed.			
SARA 304 Emergency releas	e notification		
Not regulated.			
OSHA Specifically Regulated	I Substances (29 CFR 19	10.1001-1050)	
Not regulated.			
uperfund Amendments and Rea		(SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazard	ous substance		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
2-Butoxyethanol		111-76-2	2.5 - 10
ther federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollut	tants (HAPs) List	
Not regulated.			
Clean Air Act (CAA) Section	112(r) Accidental Releas	e Prevention (40 CFR	68.130)
Butane (CAS 106-97-8)		·	
Safe Drinking Water Act (SDWA)	Not regulated.		
FIFRA Information	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.		

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

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

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. Rhode Island RTK

Butane (CAS 106-97-8) Isopropyl Alcohol (CAS 67-63-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Dimethylnitrosoamine (CAS 62-75-9) Listed: October 1, 1987

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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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 (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Ricc	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, including date of preparation or last revision

Issue date	04-06-2016
Revision date	04-18-2016
Version #	02
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.

Revision information