

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Office Depot Screen Cleaner	Code	503000236
Supplier	Office Depot	MSDS#	236
Synonym	Screen Cleaner	Validation Date	2/4/2000
Trade name	Screen Cleaner	Print Date	2/4/2000
Material Uses	Screen Cleaner	Responsible Name	Technical Department
Manufacturer	Petro Chemical Products, Inc. 2910 West Beaver Street Jacksonville, Florida 32254 (904) 981-4135	In Case of Emergency	Chemtrec 1-800-424-9300 1-202-483-7616

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-6	80-95	Not available.
2) Isopropyl Alcohol	67-63-0	1-10	TWA: 400 (ppm) from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States]
3) Ethylene Glycol Monobutyl Ether	111-76-2	1-5	TWA: 50 (ppm) from OSHA (PEL) [United States] SKIN TWA: 25 (ppm) from ACGIH (TLV) [United States] SKIN

Section 3. Hazards Identification

Physical State and Appearance	Liquid Pump Spray
Emergency Overview	DANGER! FLAMMABLE. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Keep out of reach of children.
Routes of Entry	Skin, Eyes, Ingestion
Potential Acute Health Effects	<i>Eyes</i> This product may irritate eyes upon contact. <i>Skin</i> This product may irritate skin upon contact. <i>Inhalation</i> Not available. <i>Ingestion</i> May be harmful if swallowed. May cause nausea or stomach pain.
Potential Chronic Health Effects	NO carcinogenic effect.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.

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Overexposure Not available.
/Signs/Symptoms
See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	FLAMMABLE.
Auto-ignition Temperature	Not available.
Flash Points	CLOSED CUP: 52°C (126°F)
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	FLAMMABLE.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	No special measures are typically indicated.

Section 7. Handling and Storage

Handling	Keep container closed. Use only with adequate ventilation. Store and use away from heat, sparks, open flame, or any other ignition source.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep out of reach of children.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Personal Protection*Eyes* Safety glasses.*Body* Work uniform or laboratory coat.*Respiratory* Wear appropriate respirator when ventilation is inadequate.*Hands* No special recommendations.*Feet* Not applicable.**Protective Clothing
(Pictograms)**

Personal Protection in Case of a Large Spill	Gloves. Safety glasses.
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Product Name	Exposure Limits
1) Water	Not available.
2) Isopropyl Alcohol	TWA: 400 (ppm) from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States]
3) Ethylene Glycol Monobutyl Ether	TWA: 50 (ppm) from OSHA (PEL) [United States] SKIN TWA: 25 (ppm) from ACGIH (TLV) [United States] SKIN

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid Pump Spray	Odor	Slight.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Blue. (Light.)
pH (1% Soln/Water)	Not available.		
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Water).		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water.		

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Critical Temperature	Not available.
Specific Gravity	1 (Water = 1)
Vapor Pressure	Not available.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
VOC	8%
Viscosity	Not available.
LogK_{ow}	Not available.
Ionicity (in Water)	Amphoteric. (Water).
Dispersion Properties	See solubility in water, methanol, acetone.
Solubility	Easily soluble in cold water, hot water, methanol, acetone.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	No specific information is available in our database regarding the other toxic effects of this material for humans.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

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Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available. Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	ORM-D - CONSUMER COMMODITY	
Marine Pollutant	Not a marine pollutant.	
Hazardous Substances Reportable Quantity	Not available.	
Special Provisions for Transport	Not available.	
TDG Classification	Class 3: Flammable liquid.	
ADR/RID Classification	Class 3: Flammable liquid A.	
IMO/IMDG Classification	CLASS 3.3: Flammable liquid (High flashpoint group of liquids having a flashpoint of 23°C (73°F) up to, and including, 61°C (141°F) c.c.).	
ICAO/IATA Classification	Class 3: Flammable liquid.	

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Section 15. Regulatory Information

HCS Classification Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

U.S. Federal Regulations TSCA 8(b) inventory: Water
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
 SARA 313 toxic chemical notification and release reporting: No products were found.
 Clean water act (CWA) 307: No products were found.
 Clean water act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

International Regulations

WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

No products were found.

EINECS Not available.

DSCL (EEC) R10- Flammable.

International Lists No products were found.

State Regulations No products were found.
 California prop. 65: No products were found.

Section 16. Other Information

Label Requirements FLAMMABLE.

Hazardous Material Information System (U.S.A.)

Health	1
Fire Hazard	2
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)



References Not available.

Other Special Considerations Not available.

Validated by Technical Department on 2/4/2000.

Verified by Environmental Department.

Printed 2/4/2000.

Chemtree
 1-800-424-9300
 1-202-483-7616

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Office Depot Multipurpose Antistatic Spray Cleaner	Code	503000235
Supplier	Office Depot	MSDS#	235
Synonym	Antistatic Spray Cleaner	Validation Date	2/4/2000
Trade name	Antistatic Spray Cleaner	Print Date	2/4/2000
Material Uses	Antistatic Spray Cleaner	Responsible Name	Technical Department
Manufacturer	Petro Chemical Products, Inc. 2910 West Beaver Street Jacksonville, Florida 32254 (904) 981-4135	In Case of Emergency	Chemtrec 1-800-424-9300 1-202-483-7616

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-5	80-95	Not available.
2) Isopropyl Alcohol	67-63-0	1-10	TWA: 400 (ppm) from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States]
3) Ethylene Glycol Monobutyl Ether	111-76-2	1-5	TWA: 50 (ppm) from OSHA (PEL) [United States] SKIN TWA: 25 (ppm) from ACGIH (TLV) [United States] SKIN
4) Isobutane	75-28-5	1-5	TWA: 800 (ppm) from ACGIH (TLV) [United States]
5) Propane	74-98-6	1-5	TWA: 1000 (ppm) from OSHA (PEL) [United States]

Section 3. Hazards Identification

Physical State and Appearance	Aerosol Product
Emergency Overview	DANGER! FLAMMABLE GAS. CONTENTS UNDER PRESSURE Flammable liquid and vapor. Keep away from heat, sparks and flame. Do not store above 120 degrees F. Do not puncture or incinerate. Keep container closed. Use only with adequate ventilation. Keep out of reach of children.
Routes of Entry	Skin, Eyes, Ingestion
Potential Acute Health Effects	<i>Eyes</i> This product may irritate eyes upon contact. <i>Skin</i> This product may irritate skin upon contact. <i>Inhalation</i> Not available. <i>Ingestion</i> May be harmful if swallowed. May cause nausea or stomach pain.

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**Office Depot Multipurpose Antistatic
Spray Cleaner**

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Potential Chronic Health Effects NO carcinogenic effect.**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.**Overexposure** Not available.**/Signs/Symptoms**

See Toxicological Information (section 11)

Section 4. First Aid Measures**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.**Skin Contact** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.**Notes to Physician** Not available.**Section 5. Fire Fighting Measures****Flammability of the Product** FLAMMABLE LIQUID AND VAPOR.**Auto-ignition Temperature** Not available.**Flash Points** CLOSED CUP: 52°C (126°F)**Flammable Limits** Not available.**Products of Combustion** Not available.**Fire Hazards in Presence of Various Substances** FLAMMABLE.**Explosion Hazards in Presence of Various Substances** Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.**Fire Fighting Media and Instructions** Flammable liquid, soluble or dispersed in water.
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.**Protective Clothing (Fire)** Be sure to use an approved/certified respirator or equivalent.**Special Remarks on Fire Hazards** Aerosols involved in fire may rupture and become projectiles.**Special Remarks on Explosion Hazards** Flammable gas may travel some distance from source and present explosion hazards.**Continued on Next Page**

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	No special measures are typically indicated.

Section 7. Handling and Storage

Handling	Keep container closed. Use only with adequate ventilation. Store and use away from heat, sparks, open flame, or any other ignition source.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Do not store above 120 degrees F. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep out of reach of children.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Personal Protection

Eyes Safety glasses.

Body Work uniform or laboratory coat.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands No special recommendations.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Safety glasses. Gloves.

Product Name

Exposure Limits

1) Water	Not available.
2) Isopropyl Alcohol	TWA: 400 (ppm) from OSHA (PEL) (United States) TWA: 400 (ppm) from ACGIH (TLV) (United States)
3) Ethylene Glycol Monobutyl Ether	TWA: 50 (ppm) from OSHA (PEL) (United States) SKIN TWA: 25 (ppm) from ACGIH (TLV) (United States) SKIN
4) Isobutane	TWA: 800 (ppm) from ACGIH (TLV) (United States)
5) Propane	TWA: 1000 (ppm) from OSHA (PEL) (United States)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Aerosol Product	Odor	Slight. Lemon like.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	(Light.)
pH (1% Soln/Water)	Not available.		

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**Office Depot Multipurpose Antistatic
Spray Cleaner**

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Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Water).
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water.
Critical Temperature	Not available.
Specific Gravity	1 (Water = 1)
Vapor Pressure	Not available.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
VOC	11%
Viscosity	Not available.
LogK _{ow}	Not available.
Ionicity (in Water)	Amphoteric. (Water).
Dispersion Properties	See solubility in water, methanol, acetone.
Solubility	Easily soluble in cold water, hot water, methanol, acetone.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	No specific information is available in our database regarding the other toxic effects of this material for humans.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

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**Office Depot Multipurpose Antistatic
Spray Cleaner**

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Special Remarks on Other Not available.
Toxic Effects on Humans

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Biodegradable/OECD Not available.

Mobility Not available.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification ORM-D - CONSUMER COMMODITY



Marine Pollutant Not a marine pollutant.

Hazardous Substances Reportable Quantity Not available.

Special Provisions for Transport Not available.

TDG Classification Class 3: Flammable liquid.

ADR/RID Classification Class 3: Flammable liquid A.

IMO/TMDG Classification CLASS 3.3: Flammable liquid (High flashpoint group of liquids having a flashpoint of 23°C (73°F) up to, and including, 61°C (141°F) c.c.).

ICAO/IATA Classification Class 3: Flammable liquid.

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Section 15. Regulatory Information

HCS Classification	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
U.S. Federal Regulations	TSCA 8(b) inventory: Water SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean water act (CWA) 307: No products were found. Clean water act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
International Regulations	
WHMIS (Canada)	CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). No products were found.
EINECS	Not available.
DSCL (EEC)	R10- Flammable.
International Lists	No products were found.
State Regulations	No products were found. California prop. 65: No products were found.

Section 16. Other Information

Label Requirements	Flammable liquid and vapor.								
Hazardous Material Information System (U.S.A.)	<table border="1"> <tr> <td>Health</td><td>1</td></tr> <tr> <td>Fire Hazard</td><td>2</td></tr> <tr> <td>Reactivity</td><td>0</td></tr> <tr> <td>Personal Protection</td><td></td></tr> </table> National Fire Protection Association (U.S.A.) 	Health	1	Fire Hazard	2	Reactivity	0	Personal Protection	
Health	1								
Fire Hazard	2								
Reactivity	0								
Personal Protection									
References	Not available.								
Other Special Considerations	Not available.								
Validated by Technical Department on 2/4/2000.	Verified by Environmental Department.								
	Printed 2/4/2000.								
Chemtrec 1-800-424-9300 1-202-483-7616									

Notice to Reader

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2200 Old Germantown Road ■ Delray Beach, Florida 33445
Phone: 561-272-5745

MATERIAL SAFETY DATA SHEET

Date: 10/00

I. PRODUCT IDENTIFICATION

Product Name: **CLEANING WIPES**
100 COUNT Pre-Moistened Wipes
40 COUNT Pre-Moistened Wipes
Chemical Description: Nonwoven wipes impregnated with a cleaning solution.

II. COMPOSITION

<u>Ingredients:</u>	<u>O/O by Wt:</u>	<u>Hazard:</u>
Isopropanol	<10	Flammable
1-methoxy-2-propanol	<0.8	Flammable
Morpholine	<0.5	Skin Irritant

III. PHYSICAL DATA

Specific Gravity:	NA	Boiling Point:	N.D.
Vapor Density:	N.D.	Vapor Pressure:	N.D.
Appearance:	Clear liquid.	Odor:	Mild ammonia
Solubility in Water:	Appreciable	pH:	NA
Other:			

IV. HEALTH HAZARD DATA

Toxicity: Very low toxicity.

Effects of Overexposure: Moderately irritating to skin and eyes.

Emergency and First Aid Procedures:

Inhalation: Not a hazard for casual exposure.

Ingestion: Drink two glasses of water – no harmful effects are expected.

Skin Contact: Not perceived as a hazard for casual exposure.

Eye Contact: Flush with cold water for 5 minutes – consult a physician.



2200 Old Germantown Road ■ Delray Beach, Florida 33445
Phone: 561-272-5745

V. REACTIVITY DATA

Stability	Conditions to Avoid:
Stable Unstable	Excessive heat.
X	
Hazardous Polymerization:	Conditions to Avoid:
May Occur Will Not Occur	
X	

VI. FLAMMABILITY/EXPLOSIVE PROPERTIES

<u>Flash Point:</u>	<u>Flammable Limits in Air (% by volume)</u>
>200° F	
Extinguishing Media:	Water fog, foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None

VII. SPILL OR LEAK PROCEDURES

Steps to be taken in case of spill or leak: Eliminate all ignition sources and ground any equipment. Take up with an absorbent material and place in secure containers.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

VIII. SHIPPING REGULATIONS

Type or Class:	DOT ORM-D
	IATA
Proper Shipping Name:	DOT Consumer Commodity
	IATA

NA = Not Applicable

N.D. = No Date

MATERIAL SAFETY DATA SHEET

OFFICE DEPOT CLEANING DUSTER

****SECTION I** CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: OFFICE DEPOT CLEANING DUSTER
Product Number: 0811563
Chemical Name: 1,1,1,2-Tetrafluoroethane
Manufacturer: QPL, INC.
Address: 800 S. ACADIA ROAD
THIBODAUX, LA 70301
Telephone Number: (985) 449-0660
Web Site: www.qplchem.com
Emergency numbers: Chemtree (800) 424-9300
Control Center (Louisiana) (800) 256-9822
Date Prepared: 8/00 **Revised** 01/03

****SECTION II** HAZARDOUS COMPONENTS**

Hazardous Components:	Case No.	ACGIH	TLV	PEL (OSHA)
1,1,1,2-Tetrafluoroethane	811-97-2	Not Est.		Not Est.

Notes:
(1) NPCA-HMIS Rating: Health: 1
Flammability: 0
Reactivity: 0
Personal Protection: X (See Section VIII)

This Chemical is not listed as a Carcinogen or potential Carcinogen with: NTP Status, IARC Status or OSHA list.

****SECTION III** PHYSICAL DATA**

Boiling Point: -15.7°F @ 736 mm Hg
Solubility in water: Slight
Vapor pressure: 96 psia @ 70°F
Volatiles (% by weight): 100%
Vapor Density (Air = 1): 3
Density: 1.21 g/cc @ 77°F

Description: A colorless, clear liquefied gas with a slight ethereal odor.

****SECTION IV** FIRE & EXPLOSION HAZARDS**

Flash Point: None **Method Used:** TOC
Flammable Limits: NOT APPLICABLE
Extinguishing Media: As appropriate for combustibles in area
Special fire fighting procedures: Self-contained breathing apparatus. Positive pressure type.
Unusual fire and explosion hazards: None (material itself is not flammable)

****SECTION V** REACTIVITY DATA**

Stability: Yes
Incompatibility (Materials to Avoid): Strong oxidizers and high temperatures above 130°F. Strong acids or bases. Alkaline earth materials.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures and sources of ignition such as sparks.
Hazardous Decomposition Products: Source – High Heat, forming hydrofluoric acid and possible carbonyl fluorine.

****SECTION VI** HEALTH HAZARD DATA**Primary Routes of Entry; Effects of Overexposure:

Eye: Acute – irritation and redness, tearing and blurred vision.

Inhalation: Acute – excessive inhalation may cause temporary alteration of the heart's electrical activity with irregular pulse, palpitations or inadequate circulation. Intentional misuse can be fatal.

Skin: Prolong and excessive skin contact may cause frostbite.

Ingestion: Not considered a potential route of entry. (Do not administer adrenaline following exposure.)

EMERGENCY / FIRST AID PROCEDURES:

If in Eyes: Flush with water for 15 minutes. Seek medical help if irritation persists.

If on Skin: Wash with soap and water. If frostbit treat by warming affected area.

If Swallowed: Not considered a potential route of entry.

If inhaled: Remove to fresh air. Administer artificial respiration, if needed. If breathing is difficult give oxygen. Call a physician.

Note to Physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be considered only as a last resort in a life threatening emergencies.

****SECTION VII** PRECAUTIONS FOR SAFE HANDLING AND USE**

If Material is released or spilled: Ventilate area – especially low areas where heavy vapors may collect. Protect from open flames.

Waste Disposal Method: ****DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS****

Handling/Storing Precautions: Store in a dry area, away from heat sources or high ambient temperature. OK to store at freezing temperatures.

Other Precautions: Keep away from children. For professional or industrial use only.

****SECTION VIII** SPECIAL PROTECTION DATA**

Respiratory: No respiratory protection is needed under normal outdoor or well-ventilated working conditions.

Ventilation: Provide normal ventilation for standard manufacturing procedures.

Eyes: Splash proof safety glasses/goggles are recommended. See safety consultant.

Gloves: Butyl rubber or neoprene is recommended for prolonged contact.

****SECTION IX** SPECIAL PRECAUTIONS**

Aquatic Toxicity: Not Applicable

Shipping Information:

Proper Shipping Name:	1,1,1,2-tetrafluoroethane
Hazard Class:	Non-flammable gas, 2.2
UN#:	3159
DOT/IATA Label:	Non-flammable Gas

Air Freight Method:**DOMESTIC (DOT) & INTERNATIONAL AIR (IATA)**

Passenger - Package max. Wt. 75kg

Cargo - Package max. Wt. 150kg

NA = not applicable	ND = not determined	< = less than
> = Greater than	UNK = unknown	

NOTE: The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.