

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

074892204

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071419548 074892196 074892212 074909412 074909446 074909461 074940854

## Dentsply Professional

Midwest Plus Handpiece Cleaner



### SECTION 1 : Chemical Product and Company Identification

**MSDS Name:** Midwest Plus Handpiece Cleaner

**Product Description:**

Product Class: Cleaner, Lubricant

**Manufacturer MSDS Revision Date:**

10/30/10

Supersedes: 82381-1207

**Trade Names:**

MIDWEST® Plus(TM) Handpiece Cleaner

**Distributor Name:** Dentsply Professional

**Distributor Address:**

901 West Oakton Street  
Des Plaines, IL 60018-1884  
USA

**Distributor Telephone:** 1-800-800-2888/1-800-800-7202

Identity: PDS® Clean/Polyclean

**Product Codes:**

82381-1010



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### SECTION 2 : Hazardous Ingredients/Identity Information

<b>Chemical Name</b> Proprietary Polymer Delivery System			
<b>Chemical Name</b> Surfactants			
<b>Chemical Name</b> Proprietary Blend			

**Composition/Information:**

Hazardous Components [Specific Chemical Identity; Common Name(s)]: None.



### SECTION 3 : Physical And Chemical Characteristics

**Physical State/Appearance:**

Sudsy liquid

**Color:**

Water-white, Slightly opaque color

**Odor:**

Mild odor characteristic of isopropanol.

**pH:**

Concentrate pH: Product pH 6.5; no concentrate form.

**Vapor Pressure:**

(mm Hg.): Not determined.

**Vapor Density:**

(AIR = 1): Not determined.

**Boiling Point:**

Between 80.4 deg C and 100 deg C.

**Melting Point:**

Not applicable, liquid product.

**Solubility:**

In Water: Completely miscible.

**Specific Gravity:**

(H<sub>2</sub>O = 1): ~ 1.004.

**Evaporation Point:**

(Butyl acetate = 1): Between 1.5 and 1.75.

**FlashPoint:**

None. Non-flammable.



### SECTION 4 : Fire And Explosion Hazards

**Flash Point:**

None. Non-flammable.

**Flash Point Method:**

None. Non-flammable.

**Extinguishing Media:**

None. Non-flammable.

**Fire Fighting Instructions:**

None. Non-flammable.

**Unusual Fire Hazards:**

None. Non-flammable.



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**SECTION 5 : Health Hazards****Applies to All Ingredients:****Route of Exposure:**

Most likely route(s) of Entry: Eye, Skin.

Ingestion: (only if swallowed in large quantities)

**Potential Health Effects:**

Health Hazards (Acute and Chronic) for liquid concentrate directly taken from the bottle:

**Eye Contact:**

Eye irritation (rabbit): 0.1 ml applied to the eye without washing may produce minimal to moderate transient eye irritation.

**Skin Contact:**

Dermal LD50 (rabbit): Greater than or equal to 2.0 g/kg.

Skin irritation (rabbit): Not corrosive. Direct contact can cause mild to severe redness and swelling.

**Ingestion:**

Oral LD50 (rat): Greater than 5.0 g/kg (equivalent to a 150 pound adult swallowing approximately 0.75 pounds).

**Carcinogenicity:**

None known.

**OSHA Designation:** Regulated: Not listed.

**Sensitizer Information:**

Not a skin sensitizer in guinea pigs when tested by the Modified Maquire sensitization contact allergy method.

**Signs/Symptoms:**

Eye contact: Direct contact can cause eye damage.

Skin contact: Direct contact can cause irritation.

**Aggravation of Pre-Existing Conditions:**

Not known.



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**SECTION 6 : Emergency And First Aid Procedures**

**Eye Contact:**

Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If physician not available, flush for additional 15 minutes.

**Skin Contact:**

Immediately wipe away excess material with dry cloth. Wash affected areas thoroughly with lots of water, and soap if available, for at least 15 minutes.

**Ingestion:**

Swallowing: Drink lots of water.



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## SECTION 7 : Reactivity Data

**Chemical Stability:**

Stable.

**Conditions to Avoid:**

None known.

**Incompatibilities with Other Materials:**

(Materials to Avoid): Avoid evaporation of water and contamination with extraneous chemicals.

**Hazardous Decomposition Products:**

None known.



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## SECTION 8 : Precautions For Safe Handling

**Spill Cleanup Measures:**

Caution, floors may become slippery.

**Large Spill:**

For large spills, wear appropriate protective clothing and take care for recovery of disposal.

**Small Spill:**

For small spills, use absorption sand or vermiculite and place in compatible chemical container for disposal.

**Handling:**

Make certain seals are firmly closed.

**Storage:**

Store upright, indoors between 56 deg F and 86 deg F in a clean, organized area.

**Waste Disposal:**

Dispose of in compliance with all federal, state and local laws and regulations.



## SECTION 9 : Control Measures

### Ventilation System:

No special precautions unless aerosolization is made to occur.

### Hand Protection Description:

Protective Gloves: Rubber or neoprene.

### Eye/Face Protection:

Chemical goggles or face shield.

### Respiratory Protection:

(Specify Type):

NOTE: The product is not administered as a vapor or aerosol. Should the product be misused so as to generate an aerosol or vapor, wear a NIOSH approved respirator.

### Other Protective:

Equipment: Protective clothing, eye wash, safety shower.



## SECTION 10 : Other Information

### MSDS Revision Date:

10/30/10

Supersedes: 82381-1207

OTHER REMARKS: The product is intended for use as a cleaner/lubricant. The product label should be consulted for directions for use.

### REFERENCES CONSULTED IN PREPARATION OF THIS DOCUMENT:

#### PLEASE NOTE:

1. Chemical supplier should be consulted.
2. 29 CFR 1910.1200 Hazard Communication Paragraph (b) (4).
3. 49 CFR 172.101-172. 102 List of Hazardous Chemicals and List of Optional Hazards.

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## DENTSPLY Professional

### Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Document Number: 82381-1214  
Date Revised: 09 December 2014

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 Product Identifier:

Trade Name (as labeled): Midwest Plus™ Handpiece Cleaner  
Part/Item Number: 380140

##### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Cleaner, Lubricant  
Restrictions on Use: For Professional Use Only.

##### 1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: DENTSPLY Professional  
Manufacturer/Supplier Address: 901 West Oakton St.  
Des Plaines, IL 60018  
Manufacturer/Supplier Telephone Number: 800-989-8826 or 717-767-8502 (Product Information)  
Email address: [ProfessionalMSDS@dentsply.com](mailto:ProfessionalMSDS@dentsply.com)

##### 1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: 800-424-9300 Chemtrec

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Not Hazardous	Not Hazardous	Not Hazardous

EU Classification: None

##### 2.2 Label Elements:

Signal Word: None Required

Hazard Phrases	Precautionary Phrases
None Required	None Required

##### 2.3 Other Hazards: None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixture:

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Non-Hazardous Proprietary Blend	Mixture	Mixture	Not Applicable	100%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures:

<b>Eye</b>	Flush eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.
<b>Inhalation</b>	Remove victim to fresh air. If irritation occurs, get medical attention.
<b>Ingestion</b>	In the case of unintended ingestion, rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if any adverse effects occur.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

May cause mild eye irritation. May cause skin irritation with prolonged contact. Inhalation of vapors or mist may cause upper respiratory irritation.

#### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediate medical attention should not be required except in cases of high quantities of ingestion or inhalation.

**Note to Physicians (Treatment, Testing, and Monitoring):** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**5.1 Extinguishing Media:** Use water, carbon dioxide, alcohol foam or dry chemical.





#### 5.2 Special Hazards Arising from the Substance or Mixture:

Decomposition may release carbon monoxide and carbon dioxide.

#### 5.3 Advice for Fire-Fighters:

<b>Fire Fighting Procedures:</b>	Use water to cool exposed containers and structures. Fight fire from safe distance or protected location.
<b>Precautions for Fire Fighters:</b>	Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses.





Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate spill area and keep unprotected personnel away. Avoid contact with skin, eyes or clothing. Avoid breathing mists. Wear appropriate protective clothing.

#### Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

### 6.2 Environmental Precautions:

Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities.

### 6.3 Methods and Material for Containment and Cleaning up:

Contain and collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

### 6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

Avoid contact with the eyes, skin and clothing. Avoid breathing mists. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities:**

Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from incompatible materials. Keep container closed to prevent contamination.

**7.3 Specific End Use (s):** For professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:****Occupational Exposure Limits:**

Non-Hazardous Proprietary Blend	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	European Union	None Established

**Biological Exposure Limits:** None Established

**8.2 Exposure Controls:**

**Appropriate Engineering Controls:** Use with adequate local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion-proof equipment where required.

**Individual Protection Measures (PPE):**



**Specific Eye/face Protection:** Chemical safety glasses or chemical splash goggles are recommended to avoid eye contact.

**Specific Skin Protection:** Wear impervious gloves such as butyl rubber or neoprene gloves to avoid prolonged skin contact.

**Specific Respiratory Protection:** None should be needed for normal use. If the airborne concentrations are excessive, an approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Specific Thermal Hazards:** None required.

**Recommended Personal Protective Equipment**

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on Basic Physical and Chemical Properties:**

<b>Appearance:</b>	Water-white sudsy liquid with slightly opaque color.	<b>Explosive limits:</b>	<b>LEL:</b> Not determined <b>UEL:</b> Not determined
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<b>Odor:</b>	Mild odor characteristic of isopropanol.	<b>Vapor pressure (mmHg):</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not Determined
<b>pH:</b>	6.5	<b>Relative density:</b>	~1.004
<b>Melting/freezing point:</b>	Not determined	<b>Solubility(ies):</b>	Completely miscible
<b>Initial boiling point and boiling range:</b>	80.4-100°C (176.72-212°F)	<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Flash point:</b>	Not determined	<b>Auto-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Between 1.5 and 1.75	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	Not applicable
<b>Explosive Properties:</b>	Not an explosive	<b>Oxidizing Properties:</b>	Not an oxidizer

**9.2 Other Information:** None available

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b> None known.
<b>10.2 Chemical Stability:</b> Stable at normal temperatures and conditions.
<b>10.3 Possibility of Hazardous Reactions:</b> Hazardous polymerization will not occur.
<b>10.4 Conditions to Avoid:</b> None known
<b>10.5 Incompatible materials:</b> Avoid oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b> Decomposition may release carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

<p><b><u>Potential Health Effects:</u></b></p> <p><u>Eyes:</u> Contact may cause moderate irritation with redness, tearing and stinging.</p> <p><u>Skin:</u> Repeated or prolonged contact may cause irritation, drying, defatting of the skin and dermatitis.</p> <p><u>Ingestion:</u> Ingestion of large amounts may cause gastrointestinal upset.</p> <p><u>Inhalation:</u> Inhalation of vapors may cause cause irritation of the mucous membranes and upper respiratory tract.</p> <p><b><u>Chronic Health Effects:</u></b> None known.</p>
<p><b><u>Irritation:</u></b></p> <p>Product: Skin irritation (rabbit): Not corrosive. Direct contact can cause mild to severe redness and swelling. Eye irritation (rabbit): 0.1 ml applied to the eye without washing may produce minimal to moderate transient eye irritation.</p>

<b><u>Corrosivity:</u></b> This product is not a corrosive material.
<b><u>Sensitization:</u></b> No data available. This product is not expected to cause sensitization.
<b><u>Carcinogenicity:</u></b> None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Directive.
<b><u>Mutagenicity:</u></b> No data available. This product is not expected to cause mutagenic activity.
<b><u>Medical Conditions Aggravated by Exposure:</u></b> Individuals with pre-existing skin, respiratory, liver and kidney disease may be at increased risk from exposure.
<b><u>Acute Toxicity Data:</u></b> Product: Oral Rat LD50: >5.0 g/kg, Dermal Rabbit LD50: ≥ 2.0 g/kg.
<b><u>Reproductive Toxicity Data:</u></b> No data available. This product is not expected to cause reproductive harm.
<b><u>Specific Target Organ Toxicity (STOT):</u></b> <u>Single Exposure:</u> No data available  <u>Repeated Exposure:</u> No data available

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity:</b> No ecotoxicity data available
<b>12.2 Persistence and Degradability:</b> No data available.
<b>12.3 Bio-accumulative Potential:</b> No data available.
<b>12.4 Mobility in Soil:</b> No data available.
<b>12.5 Results of PBT and vPvB Assessment:</b> Not applicable.
<b>12.6 Other Adverse Effects:</b> None

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

<b><u>Regulations:</u></b> Dispose in accordance with all national and local regulations.
<b><u>Properties (Physical/Chemical) Affecting Disposal:</u></b> Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers.
<b><u>Waste Treatment Recommendations:</u></b> Dispose in accordance with national and local regulations.

## 14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
<b>DOT</b>	None	Not Regulated	None	None	Not applicable
<b>ADR/RID</b>	None	Not Regulated	None	None	Not applicable
<b>IMDG</b>	None	Not Regulated	None	None	Not applicable
<b>IATA/ICAO</b>	None	Not Regulated	None	None	Not applicable

**14.6 Special Precautions for User:** Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

## 15. REGULATORY INFORMATION

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

### U.S. Federal Regulations

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** This product is an approved drug and not subject to chemical notification requirements.

**Clean Water Act (CWA):** This material is not regulated under the Clean Water Act.

**Clean Air Act (CAA):** This material is not regulated under the Clean Air Act.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Immediate Hazard:</b>	No	<b>Pressure Hazard:</b>	No
<b>Delayed Hazard:</b>	No	<b>Reactivity Hazard:</b>	No
<b>Fire Hazard:</b>	No		

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**

Components	C.A.S. #	WT %
None		

### State Regulations

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Components	C.A.S. #	WT %
None		

### International Regulations

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Medical devices are not subject to WHMIS.

**Canadian Environmental Protection Act:** This product is a medical device and not subject to chemical notification requirements.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

**European Inventory of Existing Chemicals (EINECS):** This product is a medical device and not subject to chemical notification requirements.

**EU REACH:** All components requiring registration have been pre-registered.

**Australian Inventory of Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**China Inventory of Existing Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Japanese Existing and New Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Korean Existing Chemicals List:** This product is a medical device and not subject to chemical notification requirements.

**Philippine Inventory of Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**15.2 Chemical Safety Assessment:** None required.

## 16. OTHER INFORMATION

HMIS Hazard Rating:

Health – 1      Flammability – 0      Physical Hazard – 0

Full text of Classification abbreviations used in Section 2 and 3:  
None

Date Revised: 09 December 2014

Revision Summary: Converted MSDS to Reach SDS. Updated all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.