

POWER PLUS IODINE BASED, DEODORIZER, DISINFECTANT CLEANER

UNI-KEM CHEMICALS, INC

802 Wm. Leigh Drive
Tullytown, PA 19007
Phone—800-752-1120
Fax— 215-269-9855

GENERAL DESCRIPTION: POWER PLUS CLEANER SANITIZER is a low foaming iodophor for sanitizing glasses and dishes in restaurants, bars, hotels, schools and institutions .

PROPERTIES:

Chemical composition Sanitizers; soil suspending and penetrating agents; deodorizers; soil emulsifying agents.

Appearance. Brown liquid

Active Ingredients.

Butoxy polypropoxy polyethoxy ethanol-iodine complex. 12.47
Polyethoxy polypropoxy polyethoxy ethanol-iodine complex 0.37%
Titratable Iodine. 1.6%
Specific Gravity 1.008
Stability 1 Year @ Ambient Temperature
Rinsing Complete
Foaming Low
pH (concentrate). 2.8



GLASSES AND DISHES IN A THREE SINK SYSTEM:

Wash glasses and pre-scraped dishes in sink number 1, which should contain one ounce of POWER PLUS CLEANER/SANITIZER per five gallons of cold or lukewarm (not hot) water. Rinse in clear water in sink number 2. Place cleaned glasses and dishes in sink number 3, which should contain one ounce of POWER PLUS CLEANER/SANITIZER per five gallons of cold or lukewarm (not hot) water. This solution will provide 25 ppm of titratable iodine. Allow to soak for one minute. Remove glasses and dishes; allow to drain and air dry.

GLASSES AND DISHES IN A TWO SINK SYSTEM:

Wash glasses and pre-scraped dishes in sink number 1 which should contain one ounce of POWER PLUS SANITIZER/CLEANER per five gallons of cold or lukewarm (not hot) water. Place cleaned glasses and dishes in sink number 2 which should contain one ounce of POWER PLUS CLEANER/SANITIZER per five gallons of cold or lukewarm (not hot) water. This solution will provide 25 ppm of titratable iodine. Allow to soak for one minute. Remove glasses and dishes; allow to drain and air dry.

POWER PLUS CLEANER/SANITIZER is regulated under the Food Additives Amendment of the Federal Food, Drug and Cosmetic Act for use on food processing equipment and utensils, up to 25 ppm of titratable iodine, without requiring a rinse with potable water.

CAUTION: AVOID CONTACT WITH FOOD

AVOID CONTACT WITH SKIN OR EYES. In case of contact with eyes, flush immediately with water, and get medical attention.

RINSE EMPTY CONTAINER THOROUGHLY WITH WATER AND DISCARD IT.

SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 07-Aug-2013

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name POWER PLUS

Other means of identification

Product Code(s) UDY4

Synonyms UDY4

Recommended use of the chemical and restrictions on use

Recommended Use Institutional dish detergent

Uses advised against No information available

Supplier's details

Supplier Address

Uni-Kem Chemicals, Inc.
802 Wm. Leigh Drive
Tullytown, PA
19007
TEL: 800-752-1120

Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.
24 Hour Emergency Contact 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Dark brown Physical State Liquid. Odor No information available

Precautionary Statements

Prevention

- None

General Advice

- None

Storage

- None

Disposal

- None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS**Synonyms**

POWPL

Chemical Name	CAS-No	Weight %	Trade secret
Iodine	7553-56-2	1-5	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES**Description of necessary first-aid measures****Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

Skin Contact

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, seek medical attention.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

No information available

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

Environmental Precautions**Environmental Precautions**

Dispose of contents/container to an approved waste disposal plant.

Methods and materials for containment and cleaning up**Methods for Containment**

Stop leak if you can do it without risk

Methods for Cleaning Up

Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water. Large spillage: Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling**Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use.

Incompatible Products

Chlorine-based bleaching agents. Oxidizing agents. Acids. Metals. Alkalies.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iodine 7553-56-2	STEL: 0.1 ppm aerosol and vapor TWA: 0.01 ppm inhalable fraction and vapor	(vacated) Ceiling: 0.1 ppm (vacated) Ceiling: 1 mg/m ³ Ceiling: 0.1 ppm Ceiling: 1 mg/m ³	IDLH: 2 ppm Ceiling: 0.1 ppm Ceiling: 1 mg/m ³

Appropriate engineering controls**Engineering Measures**

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Rubber gloves. Latex gloves
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Appearance	Dark brown
Odor	No information available	Odor Threshold	No information available
Property	Values	Remarks/ - Method	
pH	3.1	(4 % solution)	
Melting Point/Range	No data available	None known	
Boiling Point/Boiling Range	> 100 °C / > 212 °F	None known	
Flash Point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Relative Density	No data available	None known	
Specific Gravity	1.025	None known	
Water Solubility	100%	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Flammable Properties	Not flammable		
Explosive Properties	No data available		
Oxidizing Properties	No data available		

Other information

VOC Content (%)	No data available
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10. STABILITY AND REACTIVITY**Reactivity**

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Incompatible products.

Incompatible materials

Chlorine-based bleaching agents. Oxidizing agents. Acids. Metals. Alkalis.

Hazardous decomposition products

Iodine.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Inhalation**

Avoid breathing vapors or mists. Vapors may irritate throat and respiratory system.

Eye Contact

Contact with eyes may cause irritation.

Skin Contact

May cause irritation.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90 mL/kg (Rat)	-	-
Iodine	= 14 g/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure**Sensitization**

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Reproductive Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product**Acute Toxicity***The following values are calculated based on chapter 3.1 of the GHS document:***LD50 Oral**

759474 mg/kg; Acute toxicity estimate

LD50 Dermal

59673 mg/kg; Acute toxicity estimate

Inhalation**dust/mist**

81.4 mg/L; Acute toxicity estimate

Vapor

597 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with federal, state, and local regulations
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	Not regulated
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15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Complies
EINECS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Iodine	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship
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General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet

