






SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2315	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	POWER POUCH DISINFECTANT	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Ready To Dilute Portion Control Package Disinfectant	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: As SOLD: Skin Corr. 1C H314 Causes severe skin burns and eye damage. Acute Tox. 4 H302 Harmful if swallowed. Classification according to Directive 67/548/EEC or Directive 1999/45/EC As SOLD Corrosive; R34: Causes burns. R22: Harmful if swallowed. At USE DILUTION Not classified. Classification according to Directive 67/548/EEC or Directive 1999/45/EC At USE DILUTION Not classified.	SIGNAL WORD: DANGER	SYMBOL:		
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Information concerning particular hazards for human and environment: The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. Labeling according to Regulation (EC) No 1272/2008 The product is classified and labeled according to the CLP regulation.	Product as SOLD Product AT USE DILUTION
Hazard pictograms 	The mixture does not meet the criteria for classification. The mixture does not meet the criteria for classification. None.
Signal word Hazard-determining components of labeling:	No signal word. Not applicable.
HAZARD STATEMENTS:	Avoid contact with eyes.
PRECAUTIONARY STATEMENTS	Wear protective equipment as required. Get medical attention if symptoms appear. If irritation occurs, rinse skin with water. If irritation persists, get medical attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Remove victim to fresh air and keep comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth.
Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS No	CONCENTRATION % BY Wt.
Alkyl (C12,C14,C16) Dimethyl Benzyl Ammonium Chloride	68424-85-1	2.5-10
Decyldimethyloctylammonium chloride	32426-11-2	2.5-10
Ethanol	64-17-5	2.5-4
Tetrasodium ethylenediaminetetraacetate	64-02-8	2.5-10
Dimethyldioctylammonium chloride	5538-94-3	2.5-10
Didecyldimethylammonium chloride	7173-51-5	2.5-10
Alcohols, C9-11, ethoxylated	68439-46-3	2.5-10

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

	Product as SOLD	Product AT USE DILUTION
WARNING:	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.	No special measures required.
INHALATION:	Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.	Remove victim to fresh air and keep comfortable for breathing.
SKIN CONTACT:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Seek immediate medical help for blistering or open wounds.	If irritation occurs, rinse skin with water. If irritation persists, get medical attention.
EYE CONTACT:	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
INGESTION:	Rinse out mouth and then drink plenty of water. Do NOT induce vomiting; call for medical help immediately.	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:	Strong caustic effect on skin and mucous membranes. Breathing difficulty. Coughing. Headache. Dizziness. Gastric or intestinal disorders. Nausea.	No known effects.
HAZARDS:	Danger of disturbed cardiac rhythm. Danger of gastric perforation. Danger of severe eye injury. Condition may deteriorate with alcohol consumption.	No known effects.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	No further relevant information available.	Treat symptomatically.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:	Use fire-extinguishing methods suitable to surrounding conditions.
UNSUITABLE FIRE EXTINGUISHING MEDIA:	None.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	During heating or in case of fire poisonous gases are produced.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:	Wear self-contained respiratory protective device. Wear fully protective suit.
ADDITIONAL INFORMATION:	No further relevant information available.

6. Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

ENVIRONMENTAL PRECAUTIONS:

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

REFERENCE TO OTHER SECTIONS:

Product as SOLD

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Do not allow to enter sewers, surface or ground water. Inform respective authorities in case of seepage into watercourse or sewage system.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents. Send for recovery or disposal in suitable receptacles.

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and run off with soil and surface waterways.

Large Spills: Flush area with water. Prevent entry into waterways.

Small Spills: Wipe up with absorbent material.

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Information about fire - and explosion protection:

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Requirements to be met by storerooms and receptacles:

Information about storage in one common storage facility:

Further information about storage conditions:

SPECIFIC END USE(S): No further relevant information available.

Product as SOLD

Use only in well-ventilated areas. Prevent formation of aerosols. Avoid splashes or spray in enclosed areas.

No special measures required.

Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame.

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with acids.

Store in cool, dry conditions in well-sealed receptacles.

Protect from freezing.

Product AT USE DILUTION

No special measures required.

No special measures required.

Keep out of reach of children.

No storage precautions necessary.

No storage precautions necessary.

8. Exposure Controls / Personal Protection

Product as SOLD

CONTROL PARAMETERS

Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol	
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm
EL (CANADA)	Short-term value: 1000 ppm
EV(CANADA)	Long-term value: 1,900 mg/m ³ , 1,000 ppm
LMPE (MEXICO)	Long-term value: 1,900 mg/m ³ , 1,000 ppm A4

ADDITIONAL INFORMATION: The lists valid during the making were used as basis.

EXPOSURE CONTROLS

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

Pregnant women should strictly avoid inhalation or skin contact. The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

RESPIRATORY PROTECTION

Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed.

SKIN PROTECTION:



Material of gloves:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Neoprene gloves

Product AT USE DILUTION

Not applicable.

Not required under normal conditions of use.


A respirator is not required under normal and intended conditions of use.

No protective equipment is needed under normal conditions.

No protective equipment is needed under normal conditions.

No protective equipment is needed under normal conditions.

No protective equipment is needed under normal

EYE PROTECTION:	Butyl rubber, BR Safety glasses.	conditions. No protective equipment is needed under normal conditions.
 BODY PROTECTION:	Not required under normal conditions of use. Protection may be required for spills.	No protective equipment is needed under normal conditions.
LIMITATION & SUPERVISION OF EXPOSURE INTO THE ENVIRONMENT:	No further relevant information available.	No further relevant information available.

9. Physical & Chemical Properties		
	Product as SOLD	Product AT USE DILUTION
APPEARANCE:		
FORM:	Liquid.	Liquid.
COLOR:	Red	Light red
ODOR:	Pleasant	Pleasant
ODOR THRESHOLD:	Not determined.	Not determined.
pH at 20°C:	8.0 ± 0.5	7.0 ± 0.5
MELTING POINT/RANGE:	Undetermined.	Undetermined.
INITIAL BOILING POINT/RANGE:	212°F (100°C)	100°C/212°F
FLASH POINT:	>212°F/>100°C	Not determined.
FLAMMABILITY (solid/gas):	Not applicable.	Not applicable.
IGNITION TEMPERATURE:	Not determined.	Not applicable.
DECOMPOSITION TEMPERATURE:	Not determined.	Not determined.
SELF-IGNITING:	Product is not self-igniting.	Product is not self-igniting.
DANGER OF EXPLOSION:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	Product does not present an explosion hazard.
EXPLOSION LIMITS:		
Lower:	Not determined.	Not determined.
Upper:	Not determined.	Not determined.
VAPOR PRESSURE @ 20°C:	23 hPa	Not determined.
DENSITY @ 20°C:	0.9992 g/cm ³ (8.338 lbs/gal)	1.00 g/cm ³
RELATIVE DENSITY:	Not determined.	Not determined.
VAPOR DENSITY:	Not applicable.	Not applicable.
EVAPORATION RATE:	Not applicable.	Not applicable.
SOLUBILITY (water):	Easily soluble.	Complete.
PARTITION COEFFICIENT (n-octanol/water):	Not determined.	Not determined.
DECOMPOSITION TEMPERATURE:	Not available.	Not available.
VISCOSITY:		
Dynamic:	100 mPas	Not determined.
Kinematic:	Not applicable.	Not determined.
OTHER INFORMATION:	No further relevant information available.	No further relevant information available.

10. Stability & Reactivity Information	
REACTIVITY:	Not determined.
POSSIBILITY OF HAZARDOUS REACTIONS:	Toxic fumes may be released if heated above the decomposition point. Reacts with many consumer products, releasing chlorine or chlorine oxide gas. Exothermic reaction with acids. Reacts with certain metals. Contact with acids releases toxic gases. Reacts with strong oxidizing agents.
CHEMICAL STABILITY:	Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications. Keep away from heat and direct sunlight.
INCOMPATIBLE MATERIALS:	Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off. Contact with acids liberates toxic gases. Strong oxidizing agents.
CONDITIONS TO AVOID:	Store away from oxidizing agents.
DECOMPOSITION PRODUCTS:	Hydrogen chloride (HCl) Chlorine Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide

11. Toxicological Information		
	Product as SOLD	Product AT USE DILUTION
ACUTE TOXICITY:	809 mg/kg (Rat)	Nontoxic at USE DILUTION
PRIMARY IRRITANT EFFECT:		
SKIN CONTACT:	Caustic effect on skin and mucous membranes.	Non-hazardous at use-dilution.
EYE CONTACT:	Strong irritant with the danger of severe eye injury.	Non-hazardous at use-dilution.

SENSITIZATION:	No sensitizing effects known.	No sensitizing effects known.
TOXICOLOGICAL INFORMATION	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:	
Acute effects (acute toxicity, irritation and corrosivity):	Harmful Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. Danger through skin absorption.	Not classified No known significant effects or critical hazards.
Carcinogenic categories	NTP (National Toxicology Program): None of the ingredients is listed.	Non-hazardous at use-dilution. Not applicable.

12. Ecological Information

ACUTE TOXICITY:
Toxic for aquatic organisms.

PERSISTENCE AND DEGRADABILITY:
The product is partially biodegradable. Significant residuals remain.

BIOACCUMULATIVE POTENTIAL:
No further relevant information available.

MOBILITY IN SOIL:
No further relevant information available.

ECOTOXICAL EFFECTS:
Remark: Inhibition of the development of the biomass. Toxic for algae.

GENERAL NOTES:
Water Hazard Class (Self-classification) in the concentrate.
This statement was deduced from the properties of the single components.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or un-neutralized.
Danger to drinking water if even small quantities leak into the ground.

RESULTS OF PBT AND vPvB ASSESSMENT:
PBT: Not applicable.
vPvB: Not applicable.

OTHER ADVERSE EFFECTS:
No further relevant information available.

13. Disposal Consideration

DISPOSAL INSTRUCTIONS:	Product as SOLD Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.	Product AT USE DILUTION Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
CONTAMINATED PACKAGING:	Disposal must be made according to official regulations.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transportation Information


PRODUCT AS SOLD

UN-NUMBER
DOT, ADR, ADN, IMDG, IATA : UN1903

UN PROPER SHIPPING NAME:
DOT (ST-2145, ST-2146): UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium chloride), 8, PG II
DOT (ST-756, ST-757, ST-758, ST-760): Disinfectants, NOI, liquid
ADR: 1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alkyl (C12,C14,C17) Dimethyl Benzyl Ammonium Chloride)
IMDG, IATA: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Alkyl (C12,C14,C17) Dimethyl Benzyl Ammonium Chloride)


TRANSPORT HAZARD CLASS(es):
This product can ship as Limited Quantity if packaged in ≤0.3 gallons (1.0 Liter) containers (Non Hazardous)

DOT (ST-756, ST-757, ST-758, ST-760):



Class: N/A
Label: LTD QTY

ADR (ST-2145, ST-2146):



Class: 8 (C9) Corrosive substances
Label: 8

IMDG, IATA (ST-2145, ST-2146)



Class: 8 Corrosive substances
Label: 8

PACKING GROUP:

DOT, ADR, IMDG, IATA : II

ENVIRONMENTAL HAZARDS:

Marine pollutant: No.

SPECIAL PRECAUTIONS FOR USER: Warning: Corrosive Substances

Danger Code: 80

EMS Number: F-A, S-B

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not applicable.

Transport/Additional information:

ADR:

Limited quantities (LQ): 1L

Transport category: 3

Tunnel restriction code: E

UN "MODEL REGULATION":

UN1903, disinfectants, liquid, corrosive, n.o.s. (quaternary ammonium chloride), 8, PG II

PRODUCT AT USE DILUTION

Not intended for transport.

15. Regulatory Information

US FEDERAL REGULATIONS

SARA

Section 355 (extremely hazardous substances)

Section 313 (Specific toxic chemical listings):

TSCA (Toxic Substances Control Act):

Proposition 65 (California):

Chemicals known to cause cancer:

Chemicals known to cause reproductive toxicity for females:

Chemicals known to cause reproductive toxicity for males:

Chemicals known to cause developmental toxicity:

Carcinogenic Categories

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

TLV (Threshold Limit Value established by ACGIH)

NIOSH-Ca (National Institute for Occupational Safety and Health)

OSHA-Ca (Occupational Safety & Health Administration)

Canada

Canadian Domestic Substances List (DSL)

Canadian Ingredient Disclosure list (limit 0.1%)

Canadian Ingredient Disclosure list (limit 1%)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Product as SOLD

None of the ingredients is listed.

None of the ingredients is listed.

All ingredients are listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 64-17-5 ethanol

None of the ingredients is listed.

64-17-5 ethanol 1

64-17-5 ethanol A3

None of the ingredients is listed.

All ingredients are listed.

All ingredients are listed.

64-17-5 ethanol

None of the ingredients is listed.

Product AT USE DILUTION

Not applicable.

None of the ingredients is listed.

All ingredients are listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

None of the ingredients is listed.

All ingredients are listed.

All ingredients are listed.

None of the ingredients is listed.

None of the ingredients is listed.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

R22 Harmful if swallowed.

R34 Causes burns.

R41 Risk of serious damage to eyes.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability 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 hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.