

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAMES:** RESUP; R.P.S. (Resin Protection Solution)

GENERAL USE: Cleaning agent

PRODUCT DESCRIPTION: Resup - Corrosive blue liquid, characteristic odor; R.P.S. - Corrosive red liquid, characteristic odor

**Clack Corp.**

MANUFACTURER'S NAME

Clack Corporation

DATE PREPARED: November 13, 2006

SUPERSEDES: February 5, 2004

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ADDRESS (NUMBER, STREET, P.O. BOX)

4462 Duraform Lane

TELEPHONE NUMBER FOR INFORMATION

(608) 846-3010

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COUNTRY

EMERGENCY TELEPHONE NUMBER

Windsor, WI 53598

USA

CHEM • TEL (800) 255-3924 Outside USA (813) 248-0585

DISTRIBUTOR'S NAME

Same

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS

CAS #

%

(by weight)

OSHA PEL

ACGIH TWA

SARA

TITLE III

RQ

LBS

Phosphoric acid (a)

7664-38-2

10 - 30

1

1

5000

Alkyl (C12-C16) dimethyl benzyl ammonium chloride

68424-85-1

0.1 - 1.0

not established

(a) See Section 15

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Acidic liquid, contact with eyes may cause chemical burns, contact with skin may cause skin irritation or chemical burns. Ingestion may cause gastric distress. Hazard symbols for this product - C. Risk Phrases R22, 34

### POTENTIAL HEALTH EFFECTS

INHALATION: Corrosive and irritating to upper respiratory tract. May be harmful if inhaled.

SKIN: Corrosive and irritating; chemical burns may result from contact.

EYES: Corrosive; Causes immediate severe irritation of the eye and eyelids. If not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight.

INGESTION: Corrosive. Material is extremely destructive to all tissues. May be harmful or fatal if swallowed.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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<b>SECTION 4 - FIRST AID MEASURES</b>			
INHALATION: Remove affected person to fresh air; if breathing has not returned to normal within a few minutes after exposure, get medical attention.			
SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.			
EYES: Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.			
INGESTION: Drink two glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids; DO NOT induce vomiting; seek medical attention immediately.			
<b>SECTION 5 - FIRE FIGHTING MEASURES</b>			
FLASH POINT (METHOD USED) Non-flammable		FLAMMABLE LIMITS AUTOIGNITION TEMPERATURE: Not determined	LEL: Not applicable UEL: Not applicable NFPA CLASS: <b>None</b>
GENERAL HAZARDS: Product is corrosive. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.			
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam.			
FIRE FIGHTING PROCEDURES Keep containers cool with water spray to prevent container rupture due to steam buildup; CAUTION - material is corrosive.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Contact with B:C extinguisher powder may produce large amounts of carbon dioxide.			
HAZARDOUS COMBUSTION PRODUCTS Smoke, fumes or vapors, oxides of carbon, phosphorous			
<b>SECTION 6 - ACCIDENTAL RELEASE MEASURES</b>			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.			
<b>SECTION 7 - HANDLING AND STORAGE</b>			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.			
<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>			
<b>ENGINEERING CONTROLS</b>			
The use of local exhaust ventilation is recommended. Use corrosion-resistant ventilation equipment.			
<b>PERSONAL PROTECTION:</b>			
RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.			
PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.			
EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.			
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to prevent skin contact, safety eyewash station nearby.			
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.			

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<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>				
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C		VAPOR DENSITY (AIR = 1) > 1		
SPECIFIC GRAVITY (WATER = 1) 1.119		EVAPORATION RATE (WATER = 1) < 1		
SOLUBILITY IN WATER Complete		FREEZING POINT 32°F (0° C)		
pH 0.5		APPEARANCE AND ODOR Blue (Resup) or red (R.P.S.) liquid, characteristic odor		
BOILING POINT 214°F (102° C)		PHYSICAL STATE Liquid		
VISCOSITY Not specified, similar to that of water		VOLATILE ORGANIC COMPOUNDS (Total VOC's) None		
<b>SECTION 10 - STABILITY AND REACTIVITY</b>				
STABILITY UNSTABLE: STABLE: XXX		CONDITIONS TO AVOID: Extreme temperatures.		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalies.				
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.				
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX		CONDITIONS TO AVOID: None		
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>				
Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Phosphoric acid ( a)	7664-38-2	231-633-2	1530 mg / kg Oral - rat	> 850 mg / m3 Inhalation - rat
Alkyl (C12-C16) dimethyl benzyl ammonium chloride	68424-85-1	270-325-2	> 50 - 500 mg / kg Oral - rat	Not determined
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>				
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.				
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>				
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.				
<b>SECTION 14 - TRANSPORT INFORMATION</b>				
PROPER SHIPPING NAME: Phosphoric acid mixture				
DOT HAZARD CLASS / Pack Group: 8 / III REFERENCE: 49 CFR 173.154, .203, .241 UN / NA IDENTIFICATION NUMBER: UN 1805 LABEL: CORROSIVE HAZARD SYMBOLS: C		IATA HAZARD CLASS / Pack Group: 8 / III IMDG HAZARD CLASS: 8 / III RID/ADR Dangerous Goods Code: 8 UN TDG Class / Pack Group: 8 / III Hazard Identification Number (HIN): 80		
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.				

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## SECTION 15 - REGULATORY INFORMATION

### TSCA (Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

### SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories  
Immediate health

313 Reportable Ingredients:  
None

### CERCLA (Comprehensive Response Compensation and Liability Act)

(a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 20,000 lbs) or greater amounts, according to 40 CFR 302.

### California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

### CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: E

### IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

### DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

### EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

### EC Risk Phrases

R22 Harmful if swallowed  
R34 Causes burns.

### SYMBOL(S) REQUIRED FOR LABEL

Corrosive



### EC Safety Phrases

S2 Keep out of the reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)

## SECTION 16 - OTHER INFORMATION

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

### HMIS HAZARD RATINGS

HEALTH

2

\* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

0

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

C

Safety Glasses, Gloves, Apron

### REVISION SUMMARY:

This MSDS has been revised in the following sections:

Complete format update

MSDS Prepared by: Chem-Tel, Inc.  
1305 N. Florida Ave.  
Tampa, Florida USA 33602  
(800) 255-3924 Outside USA (813) 248-0573

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material, even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.