



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME
Ramsey Group, Inc.
32 Old Shoals Road
Arden, North Carolina 28704

24 HR-EMERGENCY TELEPHONE
InfoTrac 800-535-5053
InfoTrac +1-352-323-3500 International
Information: 828-684-2257
Fax: 828-684-4952
jegan@ramsey-group.com

Safety Data Sheet Competent Person:

DATE PREPARED: March 8, 2015

REVISION DATE: March 19, 2015

PRODUCT NAME: **Ni-Cd CLEAN**
FORMULA: Preparation/Mixture
PRODUCT USE: Neutralize and clean wet cell Ni-Cd industrial batteries

Section 2: Hazards Identification

GHS Hazard Class Not Applicable. This product does not meet the physical, health, or environmental classification criterion of GHS (Global Harmonized System)

Hazards not otherwise classified (HNOC) or not covered by GHS: No additional information

HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.
FIRE AND EXPLOSION: Not considered flammable or combustible.
OTHER: None
CHRONIC EFFECTS OF OVEREXPOSURE: None
APPEARANCE: Clear liquid

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Ni-Cd Clean	0	0	0	----

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	CAS NO.	EINECS/ELINCS	DSL CANADA	TSCA
Chemical A	TRADE SECRET	TRADE SECRET	TRADE SECRET	Y	Y
Chemical B	TRADE SECRET	TRADE SECRET	TRADE SECRET	Y	Y

Trade Secret (TS) Some items on this SDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13. The full text for all R-Phrases is shown in Section 16.



Section 4: First Aid Measures

Description of First Aid Measures

INHALATION:	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
SKIN CONTACT:	Wash thoroughly after handling. Remove contaminated clothing.
EYE CONTACT:	Rinse continuously with water for several minutes. Remove contact lenses if present and easy. Continue rinsing. If symptoms persist, seek medical attention.
INGESTION:	If swallowed do not induce vomiting, Rinse mouth with water. Never give anything to an unconscious person. If symptoms persist, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation	May cause respiratory tract irritation.
Symptoms/Injuries After Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries After Eye Contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries After Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media	Dry Chemical Powder or Carbon Dioxide (avoid soda water fire extinguishers if batteries are in the area)
Special hazards arising from the substance or mixture	No data available.
Protective actions fire-fighters	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
Further information	Use extinguishing agent suitable for the type of surrounding fire. Avoid the use of water if batteries are in the area.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment.

Environmental precautions

Warn other workers of spill and contain spill.
Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and cleaning up

Recover spill by using absorbent and sweeping up waste material.
In case of large spills, dike the spill, if possible.
Place material into a chemical waste container. Allow for container venting if spill is contaminated with electrolyte.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.



Section 7: Handling and Storage

Precautions for safe handling

Wear proper protective equipment and avoid contact with skin, eyes, or clothing.
 Wash hands after handling this material.
 Follow all applicable local regulations for handling and storage.
 Avoid uncontrolled contact with alkaline/caustics. Reaction may generate carbon dioxide.
 Keep container tightly closed. Store in ambient above 35°F.

Conditions for safe storage, including any incompatibilities

Store in a dry location. Keep containers tightly closed.

Specific uses: Neutralize and clean wet cell Ni-Cd industrial batteries

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Water	-----	-----	-----

Exposure controls

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

Use this mixture with local exhaust ventilation at points where vapors can be released into the workspace air.

RESPIRATORY PROTECTION:

No respiratory protection normally required. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Recommend the use of a NIOSH certified dust mask or particulate mask respirator if required.

PROTECTIVE GLOVES:

Wear chemical impervious gloves at all times while working with this product. Recommend gloves suitable for alkaline and acids.

EYE PROTECTION:

Safety Glasses, Chemical goggles, face shield

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES:

Avoid breathing mist or hot dust. Avoid contact with eyes. Wash hands after handling.

EXPOSURE LIMITS

OEL not available for this mixture.

OTHER EQUIPMENT:

Safety shower, eyewash station, hand washing equipment recommended for this work area.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Clear
PHYSICAL STATE:	Liquid
ODOR:	Slight citrus odor
ODOR THRESHOLD	Not Available for product
PH	>2
MELTING POINT/FREEZING POINT:	Approx. 32 °F
INITIAL BOILING POINT AND BOILING RANGE:	100 °C (212 °F)
FLASH POINT:	Not flammable
EVAPORATION RATE:	No data available for this mixture
FLAMMABILITY (Solid, gas)	Not flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not explosive
VAPOR PRESSURE	No data available for this mixture
VAPOR DENSITY (AIR = 1)	No data available for this mixture
RELATIVE DENSITY (@25 °C):	1.02
SOLUBILITY(IES)	Soluble
OXIDIZING PROPERTIES	Not Available for product
PARTITION COEFFICIENT: n-octanol/water	Not Available for product
AUTO IGNITION TEMPERATURE	Not Available for product
DECOMPOSITION TEMPERATURE	Not Available for product
VISCOSITY	



Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Uncontrolled exposure to alkalines
Incompatibility (Materials to Avoid):	Caustics, may react with steel containers.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide

Section 11: Toxicological Information

There is no toxicological information available for the product mixture.

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat):	5400 mg/kg		Citric Acid
	Inhalation	No Data available		Citric Acid
Skin Corrosion/Irritation	LD50 Skin Rabbit		Mild Irritation	
Serious Eye Damage / Eye Irritation		Data not available	Mild Irritation	
Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity		Data not available		
Carcinogenicity		Not listed	NTP	
		Not listed	IARC	
		Not listed	OSHA	
Reproductive Toxicity		Data not available		
STOT -- Single Exposure		Data not available		
STOT -- Repeated Exposure		Data not available		
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Toxicity

OTHER INFORMATION:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12: Ecological Information

Toxicity:	Mortality LC50 <i>Leuciscus idus melanotus</i> 440 mg/l -48 hr	Citric Acid
	Static test – <i>daphnia magna</i> (water flea) -1535 mg/l – 24 hr	Citric Acid
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	No information is available.	
Other adverse effects:	No information is available.	

Section 13: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Dispose of in accordance with country, state, and local sewer and stormwater regulations.

Section 14: Transport Information

DOT TRANSPORT:		Not Regulated
ADR = International Carriage of Dangerous Goods by Road		Not Regulated
RAIL TRANSPORT:		Not Regulated
SEA TRANSPORT:	IMDG	Not Regulated
AIR TRANSPORT:	IATA/ICAO	Not Regulated



Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATIONS:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts' s hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Citric Acid
New Jersey	Citric Acid
Illinois	Not listed
Michigan	Not listed

CANADA:

This SDS will be non-compliant 3 years after the issue date. This SDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of June 16, 2014).

International Inventories

TSCA Inventory (United States of America)	Complies
DSL (Canada)	Complies
NDSL (Canada)	Complies
EINECS/ELINCS (Europe)	Complies
ENCS (Japan)	Complies
IECSC (China)	Complies
KECL (Korea)	Complies
PICCS (Philippines)	Complies
AICS (Australia)	Complies
NZIoC (New Zealand)	Complies



Section 16: Other Information

Full text of R-phrases and Safety Phrases referred to in Section 3

European Community Hazards Identification:

R: None
S: None
Danger Symbol(s): None

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Revision explanation: Initial version
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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