

RA-106 (Release Agent)

Issue date 07/03/2018

Reviewed on 07/03/2018

1. Identification

- Product Identifier
- Name of the product: RA-106 (Mild Alkaline Cleaner)
- Recommended Use:
- Use not recommended:
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: Ramsay Browne Chemical & Company PO Box 6425 Moraga, CA 94570 General Number: (925) 280-1661
- Emergency telephone number: (925) 280-1661

2. Hazard(s) Identification



• **GHS Classifications:** DHealth, Acute toxicity, 4 Oral DHealth, Acute toxicity, 4 Dermal DHealth, Skin corrosion/irritation, 1 B DHealth, Serious Eye Damage/Eye Irritation, 1

DHealth, Carcinogenicity, 2

• GHS Phrases:

- DH302 Harmful if swallowed
- DH312 Harmful in contact with skin
- DH314 Causes severe skin burns and eye damage
- DH318 Causes serious eye damage
- DH351 Suspected of causing cancer

• GHS Precautionary Statements:

- DP201 Obtain special instructions before use.
- DP202 Do not handle until all safety precautions have been read and understood
- DP260 Do not breathe dust/fume/gas/mist/vapors/spray.
- DP262 Do not get in eyes, on skin, or on clothing.
- DP264 Wash skin thoroughly after handling.



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2. Hazard(s) Identification (continued)

DP270 – Do not eat, drink or smoke when using this product.

DP280 – Wear protective gloves/protective clothing/eye protection/face protection. DP301+310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. DP301+330+353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

DP304+312 – IF INHALED: Cal a POISON CENTER or doctor/physician if you feel unwell. DP304+340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

DP305+351+338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

DP321 – Specific treatment (see supplementary first aid instructions on this label).

DP362 – Take off contaminated clothing and wash before reuse.

DP403+233 – Store in a well ventilated place. Keep container tightly closed. DP405 – Store locked up.

DP501 – Dispose of contents/container to an approved waste disposal plant.

3. Composition / Information on ingredients							
	CAS #	Percentage	Chemical Name				
	N/A	50-79%	Proprietary, non-hazardous, non-regulated				
	68603-42-9	10-20%	Amides, coco, N, N-bis (hydroxyethyl)				
	25155-30-0	10-20%	Benzenesulfonic acid, dodecyl, sodium salt				
	141-43-5	1-10%	Ethanol, 2-amino				

4. First-aid measures

- **Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- **Skin Contact:** Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- **Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- **Ingestion:** Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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4. First-aid measures (continued)

- **Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labeling (see Section 2 and/or Section 11).
- **Indication of any immediate medical attention and special treatment needed:** No data available.

5. Firefighting measures

- Flammability: Not flammable
- Flash Point: DNA
- Flash Point Method: DNA
- Autoignition temperature: No data available
- Extinguishing Media: Water Spray
 - Water Spray Water Fog Carbon Dioxide Alcohol-Resistant Foam Dry Chemical
- Special Hazards Arising from the Substance or Mixture: Ammonia Carbon Oxides Nitrogen Oxides (NOx) Sodium Oxides
 - Sulfur Oxides
- Advice for Firefighters:
 - Firefighters should wear full-face, positive-pressure respirators.
- Further Information:
 - If incinerated, may release toxic fumes. Use water spray to cool unopened containers. See Section 7 for more information on safe handling. See Section 8 for more information on personal equipment. See Section 13 for disposal information.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures:
 - Use personal protective equipment.
 - Keep from contacting skin or eyes. Avoid breathing vapors, mist or gas.
 - Ensure adequate ventilation.



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6. Accidental release measures (continued)

Evacuate personnel to safe areas. Stay upwind of any spills.

Environmental precautions: Prevent further release (leakage/spillage) if safe to do so. Do not allow product to enter drains. Do not allow to drain to environment.

• Methods and materials for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Neutralizing agent like Sodium Bicarbonate may also be used to absorb/neutralize any spilled material.

Spill may also be diluted with equal volume of water and absorbed (as above) or collected with an electrically-protected vacuum cleaner or by wet-brushing.

Place contaminated material into suitable, closed containers for disposal.

Dispose of contaminated material according to Section 13.

After spillage has been collected, area may be flushed with water or wet-brushed. Ensure adequate ventilation.

• Reference to other sections:

Comply with federal, state and local regulations on reporting spills. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

7. Handling and storage

• Handling Precautions:

Avoid breathing vapors or mist. Avoid contact with eyes, skin or clothing. Use approved, original containers only. Keep containers closed when not in use. Do not expose containers to open flame, excessive heat, or direct sunlight. Do not puncture or drop containers. Handle with care and avoid spillage on the floor. Keep material out of reach of children. Keep material away from incompatible materials. Wash thoroughly after handling. Ensure adequate ventilation. torage Requirements:

• Storage Requirements:

Keep container tightly closed.

Avoid inhalation of vapors or mist upon opening container.



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7. Handling and storage (continued)

Store in a well-ventilated place.

Do not store in direct sunlight.

Store only in original container.

Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Iron, Copper and its alloys (Brass, etc) and Rubber.

8. Exposure controls / personal protection

• Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

• Personal Protective Equipment: Eye/face protection:

When using material use safety goggles, gloves, apron and face shield according to HMIS PP, D. A vapor respirator according to HMIS PP, U is also highly recommended when working with heated and/or concentrated product in poorly-ventilated spaces. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

• Skin protection:

Handle with gloves made from Neoprene, Viton or Nitrile. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

• Body protection:

Chemically resistant safety goggles, gloves, apron and face shield are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

• Respiratory protection:

Full-face vapor respirator is highly recommended as a backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

- **Control of environmental exposure:** Prevent leakage or spillage if safe to do so. Do not let material enter drains.
- Components with workplace control parameters:

Component(s): Ehtanol-2-amino CAS No(s)L 141-43-5 USA ACGIH (TWA/TLV): 3 ppm USA ACGIH (STEL/TWA): 6 ppm



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8. Exposure controls / personal protection (continued)

- USA OSHA Table Z-1 Limits for Air Contaminants (TWA): 3 ppm USA OSHA – Table Z-1 Limits for Air Contaminants (STEL): 6 ppm SDS Number: 301
- **Biological occupational exposure limits:** Contains no substances with biological occupational exposure limit values.

9. Physical and chemical properties

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Appearance:	Clear, Amber Liquid	Decomp Temp:	Not determined
Physical State:	Liquid	Molecular Formula:	MIXTURE
Odor:	Slight, Amine-like	Solubility:	100%
Odor threshold:	Not determined	Softening Point:	Not determined
Particle Size:	No data available	Percent Volatile:	10.3%
Spec Grav./Density:	1.016 g/ml (8.48lbs/gal)	Heat Value:	Not determined
Viscosity:	Not determined	Freezing/Melting Pt.:	< 0 °C (32 °F)
Sat. Vap. Conc.:	Not determined	Flash Point:	DNA
Boiling Point:	> 100 °C (212 °F)	Octanol:	Not determined
Flammability:	(solid, gas): Not	Vapor Density:	(air = 1): Not
	flammable		determined
Partition Coefficient:	Not determined	VOC:	21.3 g/L
Vapor Pressure:	(mm Hg @ 20 °C): Not	Bulk Density:	Not determined
	determined		
pH-value:	@ 10% 8.0-10.0	Auto-Ignition Temp:	No data
			available
Evap. Rate:	(Butyl Acetate = 1): Not	UFL/LFL:	No data
	determined		available
Molecular weight:	MIXTURE		

10. Stability and reactivity

- Stability: Product is stable under normal conditions
- Conditions to Avoid: Incompatibilities, flames, ignition sources
- **Materials to Avoid:** Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Iron, Copper and its alloys (Brass, etc.) and Rubber
- Hazardous Decomposition: Ammonia, Carbon Oxides, Nitrogen Oxides (NOx), Sodium Oxides and Sulfur Oxides
- Hazardous Polymerization: Will not occur



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11. Toxicological information

- **Component(s):** Amides, coco, N, N-bis (hydroxyethyl); Benzenesulfonic acid, dodecyl-, sodium salt; Ethanol, 2-amino.
- CAS No(s): 68603-42-9; 25155-30-0; 141-43-5
- Acute Toxicity: LD50 Oral – Rat: 438 mg/kg LD50 Dermal – Rabbit: 1,015 mg/kg
- Skin Corrosion/Irritation: Rabbit skin Causes skin irritation.
- Serious Eye Damage/Eye Irritation: Rabbit eyes Causes severe eye irritation.
- Respiratory or Skin Sensitation: No data available
- Germ Cell Mutagenicity: No data available
- **Carcinogenicity:** This product is or contains a component that is classifiable as possibly carcinogenic to humans based on its IARC, ACGIH, NTP or OSHA classification (Amides, coco, N, N-bis (hydroxyethyl)).

IARC: 2B – Group 2B: Possibly carcinogenic to humans (Amides, coco, N, N-bis (hydroxyethyl))

ACGIH: No Component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

- Reproductive Toxicity: No data available
- **Specific Target Organ Toxicity Single Exposure:** Inhalation May cause respiratory irritation.
- Specific Target Organ Toxicity Repeated Exposure: No data available
- Aspiration Hazard: No data available
- Additional Information:

Component: Amides, coco, N, N-bis (hydroxyethyl)e; RTECS: GG6200000. Component: Benzenesulfonic acid, dodecyl-, sodium salt; RTECS: DB6825000. Component: Ethanol, 2-amino; RTECS: KJ5775000.

12. Ecological information



- **Component(s):** Amides, coco, N, N-bis(hydroxyethyl); Benzenesulfonic acid, dodecyl-, sodium salt; Ethanol, 2-amino
- **CAS No(s):** 68603-42-9, 25155-30-0, 141-43-5



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12. Ecological information (continued)

- **Toxicity to fish:** LC50 – Pimephales promelas (Fathead Minnow): 227 mg/l (96 h) LC50 – Oncorhynchus mykiss (Rainbow Trout): 3.2 -5.6 mg/l (96 h) Mortality NOEC – Oncorhynchus kisutch (Coho Salmon): 3.1 mg/l (3 d) Mortality LOEC – Oncorhynchus kisutch (Coho Salmon): 5.6 mg/l (3 d)
- **Toxicity to daphnia and other aquatic invertebrates (fresh water):** EC50 – Daphnia magna (Water Flea): 65 mg/l (48 h) Mortality NOEC – Daphnia: 4 mg/l (7 d)
- Toxicity to algae: EC50 – Desmodesmus subspicatus (Green Algae): 15 mg/l (72 h)
 Persistence and Degradability:
- Bioaccumulation Lepomis macrochirus (Bluegill Sunfish): 64 μg/l (282 d) Bioconcentration Factor (BCF): 220
- Mobility in Soil: No data available
- **Results of PBT and vPvB assessment:** Not required/conducted
- Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

13. Disposal considerations

- **Product:** Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.
- Contaminated Packaging: Dispose of as unused product.

14. Transport information

- Domestic transport (DOT): Non-regulated material, liquid
- Sea transport (IMDG): Non-regulated material, liquid
- Air transport (IATA/CAO): Non-regulated material, liquid

15. Regulatory information

• COMPONENT / (CAS/PERC) / CODES

*Amides, coco, N, N-bis (hydroxyethyl) (68603429 10-20%) PROP65, SARA311/312, TSCA



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15. Regulatory information (continued)

*Benzenesulfonic acid, dodecyl-, sodium salt (25155300 10-20%) CERCLA, CSWHS, MASS, NJHS, PA, SARA311/312, TSCA *Ethanol, 2-amino- (141435 50%) HAP, MASS, NJHS, OSHAWAC, PA, SARA311/312, TSCA, TXAIR

• **REGULATORY KEY DESCRIPTIONS**

CERCLA = Superfund clean up substance CSWHS = Clean Water Act Hazardous substances HAP = Hazardous Air Pollutants MASS = MA Massachusetts Hazardous Substances List NJHS = New Jersey Right to Know Hazardous Substances OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances PROP65 = CA Prop 65 SARA311/312 = SARA 311/312 Toxic Chemicals TSCA = Toxic Substances Control Act TXAIR = TX Air Contaminants with Health Effects Screening Level

16. Other information

HMIS Hazard ratings:	Health: 2	Fire: 0	Instability: 0	Other D (Face Shield,
			-	Goggles, Gloves, Apron)

HMIS-ratings (scale 0-4)

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HEALTH	2	
FIRE	0	
REACTIVITY	0	
PERSONAL PROTECTION	D	

• Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth is furnished free of charge and is based on technical data that Ramsay Browne Chemical & Company believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Ramsay Browne Chemical & Company's control Ramsay Browne Chemical &



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16. Other information (continued)

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