1. IDENTIFICATION

Product Name	**A/C Re~New (4057-54, 4057-55)**
Product Use	Air Conditioning/Refrigeration Applications
Supplier	Nu-Calgon Wholesaler Inc.
	2008 Altom Ct. St. Louis, MO 63376-USA
Contact Numbers	800-554-5499
E-mail Contact for SDS	info@nucalgon.com
Emergency Telephone Number	CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard Classification	**Precautionary Statements**
Not classified as hazardous according to 29CFR 1910.1200	None required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture

Component	**CAS No.**	**Concentration (%)**
Alkylbenzenes, C10-16	68648-87-3	5-20
Proprietary Ester	*	80-95

(*) Our company is withholding the specific chemical composition under provision of the OSHA Hazard Communication Rule Trade Secrets. The specific composition will be made available to health professionals in accordance with 29 CFR 1910.1200(i)(1-4).

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. Obtain medical attention if discomfort persists.

Skin	Remove contaminated clothing. Immediately wash off with plenty of water for at least 15 minutes and follow by washing with soap and water if available. If redness, swelling, pain occurs, obtain immediate medical attention..
Eye	Immediately flush eye with plenty of water for at least 15 minutes while holding eyelids open and obtain medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Obtain medical attention. Do not induce vomiting. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Water in a jet.
Fire fighting procedures	Do not enter any enclosed or confined fire space without proper protective equipment including self contained breathing apparatus. Keep adjacent containers cool by spraying with water.
Combustion products	Normal combustion forms carbon dioxide and water vapour. Incomplete combustion may produce carbon monoxide. Not classified as flammable but will burn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin and eyes. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.
Personal Protection	Wear protective clothing specified for normal operations (see section 8).
Environmental Protection	Prevent contamination of soil and water. Prevent from spreading or entering into drains or watercourses by using sand, earth, or other appropriate barriers.
Clean up methods - small spillage	Absorb or contain liquid with sand, earth, or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal.
Clean up methods - large spillage	Transfer to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Treat residues as for small spillages.

7. HANDLING AND STORAGE

Handling	Avoid breathing vapors and/or mists. Avoid contact with skin, eyes and clothing. Use only in well ventilated areas.

Storage	Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. For containers, or container linings use mild steel, stainless steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	None established.
Engineering Control Measures	Use only in well-ventilated areas.
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level, which is adequate to protect worker health, select Respiratory Protective equipment suitable for the specific conditions of use and meeting relevant legislation. Check with Respiratory Protective Equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter suitable for organic gases and vapours (boiling point >65°C (149°F) meeting EN141. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure Breathing Apparatus.
Hand Protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: PVC, neoprene and nitrile rubber.
Eye Protection	Chemical splash goggles (chemical monogoggles).
Body Protection	Use protective clothing, which is chemically resistant to this material. Safety shoes or boots should be chemical resistant.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Physical state
Viscous yellow to deep amber liquid

Odor
mild with slight petroleum characterisics

Odor Threshold
Not available

pH-value
Not available

Melting/Freezing Point
-41 °C

Flammability
Not applicable

Vapor Density
Not available

Relative density
0.90-0.91 (20°C)

Density
not available

Solubility
negligible

Initial Boiling Point & Range
Not available

Flash Point
Closed cup: >172°C (340°F)

Evaporation Rate
Not available

Upper/Lower Explosion Limits
Not available

Vapor Pressure
Not available

Partial coefficient (n-octanol/water)
Not available

Auto-ignition Temperature
>340 °C (>644 °F)

Decomposition Temperature
Not available

Viscosity
Kinematic 52 cSt @ 40°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Conditions To Avoid	Excessive heat, sparks and open flames.
Incompatible Materials	Strong oxidising. Strong Lewis or mineral acids. Strong alkalis.
Thermal Decomposition Products	Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Basis for assessment	Information given is based on animal toxicology data for similar compounds.
Skin irritation:	(Draize) believed to be between 3-5 (rabbit) moderately irritating (maximum 8)
Eye irritation	(Draize) believed to be < 15 (rabbit) no appreciable effect (maximum 110)
Acute toxicity - Dermal	LD50 believed to be > 10 g/kg (rabbit) practically non-toxic
Sensitization	Not expected to be a skin or respiratory sensitizer.
Acute toxicity - Inhalation	ND.
Acute toxicity - Oral	LD50 believed to be > 5 g/kg (rat) practically non-toxic
Repeated dose toxicity	ND.
Mutagenicity	Not mutagenic
Developmental toxicity	ND.
Carcinogenicity	Not listed by IARC, OSHA, ACGIH or NTP.

12. ECOLOGICAL INFORMATION

Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. The information given below is based on knowledge of the components and historical experience.
Mobility	Insoluble in water
Persistence/degradability	Estimated to beless than 40% degradable over a test period of more than 28 days.
Bioaccumulation	Estimated to have a very slow rate of bioaccumulation
Freshwater Fish Toxicity	ND
Freshwater Invertebrates Toxicity	ND
Acute toxicity - algae	ND
Acute toxicity - bacteria	ND

13. DISPOSAL CONSIDERATIONS

Waste disposal	Recover or recycle if possible. Otherwise: Dispose to licensed disposal contractor
Container disposal	Drain container and rinse thoroughly. Puncture container to avoid reuse. Dispose to licensed disposal contractor.
Local Legislation	The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.

14. TRANSPORT INFORMATION

DOT Classification	Not regulated for Transport

15. REGULATORY INFORMATION

INTERNATIONAL REGISTRATION:

TSCA (USA)	All components listed or exempted.
EINECS (EC)	All components listed or exempted.

16. OTHER INFORMATION

HEALTH HAZARD: 1

FIRE HAZARD: 1

REACTIVITY: 0

Prepared by:	Nu-Calgon Technical
Abbreviations:	ND: No data available
Revisions:	July 7, 2013: Original
	May 29, 2015: Updated to GHS format and classification

The information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.