Safety Data Sheet

One & Done Acid Negator

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: One & Done Acid Negator

Product Use: Eliminates acid in A/C systems

Supplier Details:
National Refrigeration
Products
985 Wheeler Way
Langhorne, PA 19047
USA

Phone: 800-352-6951
Internet: www.nrproducts.com
Emergency: Chemtrec 1-800-424-9300

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Aspiration hazard, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H225 – Highly flammable liquid and vapor H319
– Causes serious eye irritation
H304 – May be fatal if swallowed and enters airways

GHS Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces.
P233 – Keep container tightly closed.
P243 – Take precautionary measures against static discharge.
P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235 – Store in a well-ventilated place. Keep cool.
P501 – Dispose of contents/ container to an approved waste disposal plant.

One & Done Acid Negator

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients

CAS#	%	Chemical Name
64742-54-7	20-30%	Distillates, petroleum, hydrotreated heavy paraffinic
64-17-5	70-80%	Ethyl alcohol

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

Skin Contact: Remove contaminated clothing and wash before reuse. Wash with soap and water. Get medical attention if needed.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Effects and symptoms:
Ingestion: May be fatal if swallowed and enters airways.
Inhalation: May cause respiratory irritation.
Skin contact: May cause skin irritation.
Eye contact: May cause serious eye irritation.
Symptoms may include: redness, pain, swelling, itching, burning, tearing and blurred vision.
If you feel unwell, seek medical advice!

5 FIRE FIGHTING MEASURES

Flash Point: 13°C (55.40°F)

Autoignition Temperature: 363°C (685.40°F)

Extinguishing Media: Dry powder, foam, carbon dioxide.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.
Explosion Hazard: May for flammable/explosive vapor-air mixture.
Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do no enter fire area without proper protective equipment, including respiratory protection.

6 ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking.
6.1.1. No Non-emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop Leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

7 HANDLING AND STORAGE

Handling Precautions:

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. No smoking.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Storage Requirements:

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible material. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible Products: Strong acids, Strong bases, Strong oxidizers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Proper grounding procedures to avoid static electricity should be followed. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains and safety shows should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment:

Ethyl alcohol cas#:(64-17-5) [40-60%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 38 min

Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mailC sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Ethyl alcohol cas#:(64-17-5) [40-60%]

Components with workplace control parameters

TWA 1,000 ppm USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
Confirmed animal carcinogen with unknown relevance to humans

TWA 1,000 ppm USA. Occupational Exposure Limits
1,900 mg/m3 (OSHA) - Table Z-1 Limits for Air Contaminants
The value in mg/m3 is approximate.

TWA 1,000 ppm USA. NIOSH Recommended
1,900 mg/m3 Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	yellow/green		
Physical State:	liquid	**Odor:**	hydrocarbon odor
Specific Gravity or Density:	.7893 g/cm at 20°C		
Boiling Point:	78.29°C (172.92°F)	**Freezing or Melting Point:**	-114.14°C (-173.45°F)

10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Chemical Stability: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Ethyl alcohol cas#:(64-17-5) [40-60%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration: Other changes.
LC50 Inhalation - rat - 10 h - 20000 ppm
Dermal: no data available
Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available
Carcinogenicity:
Carcinogenicity - mouse - Oral:
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Liver:Tumors. Blood:Lymphomas including Hodgkins disease.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated 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
Reproductive toxicity - Human - female - Oral:
Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.
Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
Additional Information:
RTECS: KQ6300000
Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

Ethyl alcohol cas#:(64-17-5) [40-60%]

Information on ecological effects

Toxicity: no data available
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Ethyl alcohol cas#:(64-17-5) [40-60%]

Waste treatment methods

Product: Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

ID8000, Limited Quantity, 9, (Limited Quantity)

IATA: UN1993, Flammable liquid, nos, 3, PG III

IMDG: UN1993, Flammable liquids, nos, 3, PG III

See DOT 49 CFR, IATA and IMDG codes for exceptions.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) [60-75%] NJHS, TSCA

Ethyl alcohol (64-17-5) [40-60%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions'

NJHS = NJ Right-to-Know Hazardous Substances
TSCA = Toxic Substances Control Act
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

This product can expose you to chemicals including lead, which is known to the State of California to cause birth defects or other reproductive harm. Form more information, go to www.P65Warnings.ca.gov.

16 OTHER INFORMATION

Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

(24 : -24 : -24)