

RAMSEY[®]

MATERIAL SAFETY DATA SHEET

CITRUS EXPRESS GEL Citrus-Based
Spotter

Date Prepared: 01/15/1997
Date Revised: 05/20/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: CITRUS EXPRESS GEL Citrus-Based Spotter

MANUFACTURER

The Ramsey Company
120 Bartlett Street
Marlborough, MA 01752-3065

Ramsey Telephone Number: 800-421-2768
Emergency Telephone (24 hours): 800-228-5635 Ext 118

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO.	% BY WEIGHT	OSHA PEL/STEL	ACGIH TLV/STEL
Water	7732-18-5	60 - 100	NA	NA
d-Limonene	5989-27-5	10 - 30	NE	NE
Tripropylene glycol methyl ether	25498-49-1	1 - 5	NE	NE
Linear primary alcohol ethoxy- xylate	34398-01-1	1 - 5	NE	NE

33340

NA - Not Applicable NE - Not Established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Viscous, Off-White Liquid. Citrus Odor. Combustible. May Be Harmful if Swallowed. May Cause Eye and Skin Irritation. May Cause Allergic Skin Reaction.

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(s) OF EXPOSURE: Eye Skin Contact Skin Absorption
 Inhalation Ingestion

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES:

May cause eye irritation. Symptoms may include redness and pain.

SKIN:

May cause skin irritation. Symptoms may include redness, rash and mild swelling.

INGESTION:

May be harmful if swallowed. May cause mouth, throat and stomach irritation. Symptoms may include nausea, vomiting and diarrhea. May also cause central nervous system effects including headache, dizziness and weakness.

INHALATION:

High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing. High concentrations of vapor or mist may also cause central nervous system effects including headache, dizziness and nausea.

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EFFECTS OF CHRONIC EXPOSURE:

Prolonged or repeated contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged or repeated exposure to an ingredient in this product may cause allergic skin reaction.

MEDICAL CONDITIONS AGGRAVATED:

May aggravate pre-existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES:

Flush eyes with plenty of water while holding eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not put any medication in the victim's eyes unless instructed by a physician. Get medical attention.

SKIN:

Flush thoroughly with plenty of water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops or persists. Thoroughly wash (or discard) clothing and shoes before reuse.

INGESTION:

Do not induce vomiting. Drink large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

INHALATION:

Remove to fresh air. If not breathing, give respiration; if breathing is difficult, give oxygen (by trained personnel only). Get medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: 123°F 50.6°C TCC

FLAMMABLE LIMITS:
Not applicable.

FLAMMABLE LIMITS
UPPER EXPLOSIVE LIMIT: 6.1% (d-limonene)
LOWER EXPLOSIVE LIMIT: 0.7% (d-limonene)

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA:
Use water fog, dry chemical, CO2, or foam.

HAZARDOUS COMBUSTION PRODUCTS:
Normal products of combustion (carbon monoxide and carbon dioxide).

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FIRE AND EXPLOSION HAZARDS:

Class II combustible liquid. This product is combustible and may be ignited by heat, sparks, flame, and other ignition sources. Vapors can travel to a source of ignition and flash back.

FIRE FIGHTING INSTRUCTIONS:

Evacuate area. Cool containers exposed to fire with water. MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear should be worn.

6. ACCIDENTAL RELEASE MEASURES

See Section 8, Exposure Controls/Personal Protection and Section 3, Hazard Identification. Floors may be slippery. Use care to avoid falling. Remove ignition sources and ventilate spill area. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop, absorbent and non-sparking tools to collect material for proper disposal. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING:

Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Use spark-proof tools. Wash thoroughly after handling. Remove contaminated clothing. Wash clothing and equipment before reuse.

STORAGE:

Keep container closed when not in use. Store away from incompatible materials. (See Section 10, Stability and Reactivity). Store away from direct sunlight. Keep away from heat, sparks and flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

General room ventilation is expected to be adequate.

PERSONAL PROTECTION

EYE:

Where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ANSI Z87.1 approved).

SKIN:

Where skin contact is possible, chemical-resistant clothing (e.g., gloves) should be worn.

RESPIRATORY:

No respiratory protection is required if ventilation is adequate.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Citrus
APPEARANCE: Viscous, Off-White
pH: 9.6
PERCENT VOLATILE BY WEIGHT: 90
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
BOILING POINT: Not Determined
FREEZING/MELTING POINT: Not Determined
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: Not Determined
SPECIFIC GRAVITY: 0.99
VISCOSITY: Viscous
OCTANOL/WATER PARTITION COEFFICIENT: Not Determined
ODOR THRESHOLD: Not Determined

10. STABILITY AND REACTIVITY

STABILITY (CONDITIONS TO AVOID):
Stable.

POLYMERIZATION:
Will not occur.

HAZARDOUS DECOMPOSITION:
None.

INCOMPATIBLE MATERIALS:
Oxidizers (e.g., bleach).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA:
No data is available for this product. The following data are available for product ingredients:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
d-Limonene	4400 mg/kg	>5000 mg/kg	10.6 mg/L (5-hr)
Tripropylene glycol methyl ether	3200 mg/kg	>20000 mg/kg	Not Available
Linear primary alcohol ethoxylate	1000-4000 mg/kg	>2000 mg/kg	Not Available

SENSITIZATION DATA:
d-Limonene has been reported to cause allergic skin reaction (redness, swelling, and itching) in humans and in laboratory animals.

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CHRONIC DATA:

Prolonged overexposure to high concentrations of d-limonene by ingestion has caused kidney effects in laboratory animals. Prolonged overexposure to high concentrations of tripropylene glycol methyl ether by dermal absorption has caused kidney effects in laboratory animals.

REPRODUCTIVE/TERATOGENIC DATA:

No data available.

CARCINOGENIC/MUTAGENIC DATA:

Not listed as carcinogenic by NTP, IARC, or ACGIH or regulated as a carcinogen by OSHA.

SYNERGISTIC MATERIALS:

No data available.

12. ECOLOGICAL INFORMATION

This product is made with all biodegradable detergents. No other data available.

13. DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, state or provincial and federal regulations. The unused product, as manufactured, is a RCRA hazardous waste (Ignitable-D001) in accordance with 40 CFR 261. The product has not been evaluated by the Toxicity Characteristic Leachate Procedure (TCLP). According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

14. TRANSPORT INFORMATION

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Not regulated when in a container of 119 gallons (454 liters) or less.

15. REGULATORY INFORMATION

Not meant to be all-inclusive—selected regulations represented.

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Under 40 CFR 370.2, this product meets the following hazard categories:
Immediate, Delayed.

313 REPORTABLE INGREDIENTS: Ingredients in this product are not currently subject to notification.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None of the ingredients in this product are reportable under CERCLA.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product complies with all TSCA inventory requirements.

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CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

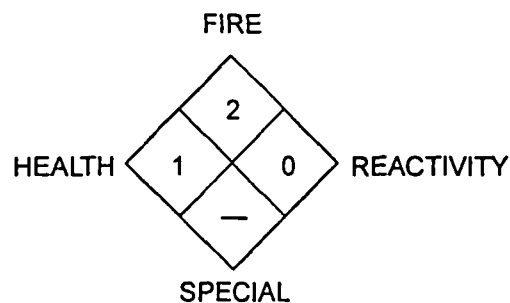
Class B-Division 3, combustible liquid; Class D-Division 2B, eye and skin irritant, potential skin sensitizer. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING

HEALTH	-	2
FLAMMABILITY		2
REACTIVITY		0
PERSONAL PROTECTION	-	

NFPA RATING



MSDS STATUS

Revision #: 1

This MSDS replaces the MSDS. Any changes in information are as follows:

APPROVED BY: EH&S/Regulatory Affairs

APPROVAL DATE: 05/20/1997

The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user.