

MATERIAL SAFETY DATA SHEET

Date-Issued: 07/26/2000
MSDS Ref. No: G-2
Date-Revised: 08/14/2000
Revision No: New MSDS

General Formula No. 209

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: General Formula 209®
GENERAL USE: For professional drycleaning use only.
PRODUCT DESCRIPTION: Stain Removal Agent
PRODUCT CODE: GF2-US

MANUFACTURER

R. R. Street & Co. Inc.
184 Shuman Boulevard
Naperville, IL 60563
Product Stewardship: 800-323-7206
Transportation: 800-424-9300

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone: 800-228-5635

2. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identity of the component(s) of this product is withheld as a trade secret.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
(trade secret #1)	-	-	-
(trade secret #2)	-	-	-
(trade secret #3)	-	-	-
(trade secret #4)	-	-	-
(trade secret #5)	-	-	-
(trade secret #6)	-	-	-

COMMENTS:

#1 = aliphatic alcohol, <30%
#3 = aliphatic alcohol

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Substance may cause substantial eye irritation and possible damage.

SKIN: Can cause chemical burn.

SKIN ABSORPTION: Not applicable.

INGESTION: Substance is harmful if swallowed. Large exposure may be fatal.

INHALATION: Extreme concentrations may cause unconsciousness or death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation, redness.

SKIN: Irritation and redness.

SKIN ABSORPTION: Not applicable.

INGESTION: Nausea, vomiting, abdominal pain, shock and convulsions.

INHALATION: Headache, dizziness, nausea, hearing impairment, narcosis and irritation of the respiratory tract.

ACUTE TOXICITY:

If ingested, vomiting may occur; vomit may be aspirated into lungs causing chemical pneumonia.

CHRONIC:

Prolonged or repeated contact may cause dermatitis.

CARCINOGENICITY:

Not applicable.

MUTAGENICITY:

Not applicable.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: See section 11.

TERATOGENIC EFFECTS: Not applicable.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing eye, skin and respiratory disorders.

ROUTES OF ENTRY: Inhalation.

TARGET ORGAN STATEMENT: No data available.

CANCER STATEMENT: Does not contain any substance(s) listed as carcinogenic.

3. HAZARDS IDENTIFICATION_(continued)

SENSITIZATION: Not applicable.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

ADDITIONAL INFORMATION: After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 14°C (58°F)TCC

FLAMMABLE LIMITS: 1-2 to 8-15

AUTOIGNITION TEMPERATURE: 400°C (752°F) to 480°C (896°F)

FLAMMABLE CLASS: NFPA Class IB

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Formic acid.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Absorb the liquid and scrub the area with detergent and water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep away from heat, sparks and flame.

HANDLING:

7. HANDLING AND STORAGE (continued)

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE:

Store in labeled, tightly sealed containers in a cool, well ventilated area.

SHELF LIFE: 1 year, minimum.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
(trade secret #1)	TWA	100			100* ^[1]	
(trade secret #2)	TWA	150			150	
	STEL	NE ^[2]			200	
(trade secret #3)	TWA	400			200*	
	STEL	NE			400	
(trade secret #4)	TWA	1			1	
	STEL	NE			2	
(trade secret #5)	TWA	NE			NE	
	STEL	NE			NE	
(trade secret #6)	TWA	15			10	
	STEL	NE			NE	

OSHA TABLE COMMENTS:

1. * = A4

2. NE=Not established.

The specific identity of the component(s) of this product is withheld as a trade secret.

ENGINEERING CONTROLS: Local exhaust may be required to control vapor concentration.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION_(continued)

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear PVC or Barrier(tm) gloves.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Do not smoke in presence of vapor. Do not eat or drink in work area.

OTHER USE PRECAUTIONS: Have eye wash station available. Do not wear contact lenses without eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

APPEARANCE: Clear.

COLOR: Colorless to light yellow.

pH: 1

PERCENT VOLATILE: 49

VAPOR PRESSURE: ~4 mm Hg at 20°C

VAPOR DENSITY: ~2 (Air=1)

BOILING POINT: 93°C (200°F)

FREEZING POINT: <0°C (32°F)

SOLUBILITY IN WATER: Very soluble.

EVAPORATION RATE: ~0.4 Butyl acetate = 1

SPECIFIC GRAVITY: 1.06

COEFF. OIL/WATER: No data available.

ODOR THRESHOLD: 20 ppm

COMMENTS:

PERCENT VOLATILE: Approximate.

BOILING POINT: Initial boiling point.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: None.

STABILITY: Stable.

POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS: Hypochlorites (chlorine bleach), alkalies, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: ~3000 mg/kg (rat)

INHALATION LC₅₀: >6300 ppm (rat)

CARCINOGENICITY:

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

SYNERGISTIC MATERIALS: No data available.

REPRODUCTIVE EFFECTS: A component of this product showed some fetotoxicity in lab animals exposed to high concentrations.

GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: The major components have low persistence in the environment and have low aquatic toxicity.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Incinerate or dispose of in accordance with federal, state and local regulations.

RCRA/EPA WASTE INFORMATION: Contains material(s) that are ignitable wastes as defined by RCRA.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Flammable Liquid, NOS

TECHNICAL NAME: Aliphatic alcohol, Aliphatic alcohol

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

LABEL: Cases of 6 one pint bottles and individual one pint cartons are Limited Quantities. No Flammable Liquid (Class 3) label required when shipped by ground.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Flammable Liquid, NOS

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Flammable Liquid, NOS

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

PLACARDS: Consult applicable regulations governing air shipments.

LABEL: Flammable Liquid (Class 3) label required when shipped by air.

IATA NOTE: Consult IATA for packaging requirements and quantity limitations.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: YES **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES
CHRONIC: YES

313 REPORTABLE INGREDIENTS: Ingredient 1 is reportable.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

15. REGULATORY INFORMATION_(continued)

CERCLA RQ: One or more ingredients has an RQ of 5000 lbs.

REPORTABLE SPILL QUANTITY: > 100 gals

RCRA STATUS: See section 13.

CANADA

WHMIS CLASS: Class B, Division 2 and Class E

MEXICO

Regulated for transportation.

STATE REGULATIONS

MASSACHUSETTS

Contains one or more substances named on the Massachusetts Substance List. Code # 99-013-007

CALIFORNIA

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

NFPA CODES

HEALTH: 3 FIRE: 2 REACTIVITY: 0

HMIS CODES

HEALTH: 3 FIRE: 3 REACTIVITY: 0 PROTECTION: H