

MATERIAL SAFETY DATA SHEET

Date Issued: 10-24-2012
General Formula No. 209

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: General Formula No. 209

GENERAL USE: For professional drycleaning use only.

PRODUCT DESCRIPTION: Stain Removal Agent

MANUFACTURER

R. R. Street & Co. Inc.
215 Shuman Boulevard/Suite 403
Naperville, IL 60563

Product Information: 800-323-7206 (USA
& Canada only) or 630-416-4244

24 HR. EMERGENCY TELEPHONE NUMBERS

Medical Emergency: 866-303-6947 (USA & Canada
only) or 651-632-9272

Transportation Emergency: 800-424-9300 (USA &
Canada only) or 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identities of one or more components of this product are withheld as a trade secret.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</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, swelling, or corneal damage.

SKIN: Can cause chemical burn. Prolonged or repeated contact may cause dermatitis.

SKIN ABSORPTION: May be absorbed through the skin.

INGESTION: Substance is harmful if swallowed. Large exposure may cause central nervous system depression, vomiting, low blood pressure, rapid heart beat, cyanosis, vascular collapse, burns, hypocalcemia, unconsciousness, coma, or death. In the case of vomiting after ingestion, product may be aspirated into lungs causing chemical pneumonia, which in extreme cases could lead to death. See section 4, First Aid Measures, for more information.

INHALATION: May cause central nervous system depression. Extreme concentrations may cause unconsciousness or death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation, redness.

SKIN: Irritation.

SKIN ABSORPTION: No data available.

INGESTION: Inflammation of mouth, throat, esophagus, and stomach, nausea, headache, abdominal pain, dizziness, drowsiness, fatigue, perspiration, shortness of breath, bloody urine.

INHALATION: Headache, dizziness, nausea, coughing, shortness of breath, drowsiness, intoxication, loss of coordination, visual disturbances, and irritation of the respiratory tract.

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

ROUTES OF ENTRY: Inhalation and skin.

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. Consult a physician if irritation persists.

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

INHALATION: Remove affected person 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% to 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, formic acid.

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spill with absorbent material and water, if necessary. Place absorbed material in closed containers for disposal (see section 13).

LARGE SPILL: Not applicable.

7. HANDLING AND STORAGE

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

HANDLING: 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.

ELECTROSTATIC ACCUMULATION HAZARD: Ground and bond containers when transferring material.

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]			
	STEL	NE ^[2]		NE			
(trade secret #2)	TWA	150		150			
	STEL	NE		200			
(trade secret #3)	TWA	400		200 ^[1]			
	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		

TABLE FOOTNOTES:

1. A4: Not classifiable as a human carcinogen.
2. NE=Not established.

The specific identities of one or more components of this product are withheld as a trade secret.

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, or goggles.

SKIN: PVC or Barrier™ 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.

PROTECTIVE CLOTHING: Not applicable.

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.

ODOR: Alcohol.

APPEARANCE: Clear.

COLOR: Colorless to light yellow.

pH: 1

PERCENT VOLATILE: ~47

VAPOR PRESSURE: ~4 mm Hg at 20°C

VAPOR DENSITY: ~3 (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

VISCOSITY: No data available.

COEFF. OIL/WATER: No data available.

ODOR THRESHOLD: 20 ppm

10. STABILITY AND REACTIVITY

STABLE: Yes.

HAZARDOUS POLYMERIZATION: No.

CONDITIONS TO AVOID: Exposure to air, heat, sparks, open flames and other ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Formic acid.

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

11. TOXICOLOGICAL INFORMATION**ACUTE**

DERMAL LD₅₀: No data available.

ORAL LD₅₀: ~3000 mg/kg (rat)

INHALATION LC₅₀: >6300 ppm (rat)

CHRONIC

TARGET ORGANS: Repeated or prolonged exposure may cause central nervous system, respiratory, blood, liver, kidney, thyroid and/or thymus effects.

SENSITIZATION: No data available.

CARCINOGENICITY

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

OTHER: ACGIH: A4. A component of this product has been shown to induce tumors in lab animals; not considered relevant to humans.

OTHER: No data available.

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

MUTAGENICITY: No data available.

SYNERGISTIC MATERIALS: May enhance the toxicity of other materials.

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.

EMPTY CONTAINER: Not applicable.

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.

OTHER SHIPPING INFORMATION: Original product packaging is labeled, marked, and approved for ground shipments only.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Flammable Liquid, NOS

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: II

LABEL: No data available.

OTHER SHIPPING INFORMATION: Original product packaging is labeled, marked, and approved for ground shipments only.

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: Original product packaging is not approved for air shipment. Consult applicable regulations 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)

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 regulated by the Massachusetts Substance List. Code # 99-013-007

CALIFORNIA

PROPOSITION 65 STATEMENT: This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm..

16. OTHER INFORMATION

HMIS RATINGS	
HEALTH	3
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	B

NFPA RATINGS