



# MATERIAL SAFETY DATA SHEETS

## PRODUCT IDENTIFICATION

**PRODUCT NAME: MULTI KLEEN SPRAY**  
**PART # N4860**

(NFPA RATINGS)

HEALTH: 2  
FIRE: 1  
REACTIVITY: 0

HMIS PROTECTIVE EQUIPMENT: X See your supervisor

<b>PRODUCT INFORMATION</b> (800) 262-0012	<b>MEDICAL EMERGENCY</b> (856) 455-4555
<b>TRANSPORTATION EMERGENCY</b> CHEMTREC (800) 424-9300	<b>DISTRIBUTOR / MANUFACTURER</b> NATIONAL REFRIGERANTS, INC. 661 KENYON AVE. ROSENHAYN, NJ

## HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA

Isobutane ( CAS# 75-28-5)  
Propane ( CAS# 74-98-6 )

OSHA PEL	ACGIH TLV
800 ppm	800 ppm
1000 ppm	1000 ppm

## HAZARDS IDENTIFICATIONS

**EMERGENCY OVERVIEW:**

DANGER! Vapor harmful. Harmful or fatal if swallowed. Aerosol contents under pressure. Irritating to eyes, skin mucous membranes, and respiratory tract.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:** Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.

**EYE CONTACT:** Irritation.

**SKIN CONTACT:** Mild irritation to skin.

**INGESTION:** Possible chemical pneumonitis if aspirated into lungs. Nausea.

**CHRONIC Effects:** (Effects due to excessive exposure to the raw materials of this mixture) May cause diarrhea, vomiting, gastrointestinal irritation.

**CARCINOGENICITY:** LISTED IN NTP? Not listed IARC? Not listed OSHA Regulated? Yes

## FIRST AID MEASURES

**INHALATION:** Remove to fresh air. Resuscitate if necessary. Seek medical attention.

**EYE CONTACT:** Flush with water for 15 minutes. If irritated, seek medical attention.

**SKIN CONTACT:** Wash exposed area with soap and water. If irritated, seek medical attention.

**INGESTION:** **DO NOT INDUCE VOMITING.** Drink two large glasses of water. Get immediate medical attention.

## FIRE FIGHTING MEASURES

**FLAMMABILITY:** (per the USA Flame Projection Test (aerosols)): Non-Flammable

**FLASHPOINT (TEST METHOD):** Not Applicable

**FLAMMABLE LIMITS:** LOWER: Not Applicable UPPER: Not Applicable

**AUTOIGNITION TEMPERATURE (non-aerosol i.e. base stock):** Not Applicable

**GENERAL HAZARD:** WARNING! Product under pressure may explode from excessive heat.

**FIRE FIGHTING INSTRUCTIONS:** Self-contained breathing apparatus.

**EXTINGUISHING MEDIA:** Foam, dry chemical, and carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide.



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## ACCIDENTAL RELEASE MEASURES

Isolate hazard area. Keep unnecessary and unprotected personnel away. Clean up spills and leaks immediately to prevent soil and water contamination.

**LAND SPILL:** Absorb spill with suitable medium.

**WATER SPILL:** No data.

## HANDLING AND STORAGE

**HANDLING:** Use with adequate ventilation. Avoid skin/eye contact and breathing vapors. DO NOT CUT, WELD, BRAZE, SOLDER, DRILL, OR EXPOSE TO HEAT, FLAME, SPARKS, and STATIC ELECTRICITY. Do not puncture or incinerate containers.

**STORAGE:** Do not store at temperatures above 130 F. KEEP AWAY FROM CHILDREN. Avoid food contamination. Avoid breathing vapors.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Adequate ventilation to keep vapor concentration below TLV.

**PERSONAL PROTECTION:** If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode. Use protective latex gloves if skin easily irritated. Safety glasses recommended. Other protective clothing and equipment none.

**KEEP AWAY FROM CHILDREN.**

## PHYSICAL AND CHEMICAL PROPERTIES

**VAPOR PRESSURE:** psig @ 70°F (aerosols): Max.60

**SPECIFIC GRAVITY:** (H<sub>2</sub>O=1) : Concentrate Only=1.027

**SOLUBILITY IN WATER:** Completely soluble.

**FREEZING POINT:** Not Applicable

**APPEARANCE & ODOR:** White foam with lemon fragrance.

**VAPOR DENSITY (Air=1) :** N/A

**EVAPORATION RATE (N-BUTYL ACETATE=1):** N/A

**pH:** NA

**BOILING POINT:** Not Applicable

## STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Open flame, welding arcs, heat.

**MATERIALS TO AVOID:** Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## TOXICOLOGICAL INFORMATION

Isobutane (CAS # 75-28-5)

LD50 / LC50: Lethal conc., 57 pph/15M ( inh.-rodent-rat)

LCLo: 1041gm/m<sup>3</sup>/2H: ( inh. Rodent-mouse)

Propane ( CAS# 74-98-6 )

No data

No data

## ECOLOGICAL INFORMATION

No Data Available.

## DISPOSAL CONSIDERATIONS

Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.



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## TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Limited Qty  
**HAZARD CLASS:** Not applicable  
**IDENTIFICATION NUMBER:** Not applicable  
**DOT Emergency Guide #:** 126  
**Reportable Quantity (RQ):** Not Applicable  
**International:** UN 1950, Aerosols, 2.1, LTD QTY

## REGULATORY INFORMATION

**TSCA** (Toxic Substance Control Act): Not listed.  
**CERCLA** (Comprehensive Environmental Response, Compensation and Liability Act): Not listed.  
**SARA TITLE III** (Superfund Amendments and Reauthorization Act): Not listed.  
**CALIFORNIA PROPOSITION 65:** Not listed.

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**DATE OF LATEST REVISION/REVIEW:** 1/2013  
**PERSON RESPONSIBLE FOR MSDS:** Matt Callahan