



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

PRODUCT INFORMATION (800) 262-0012	MEDICAL EMERGENCY (856) 455-4555
TRANSPORTATION EMERGENCY CHEMTREC (800) 424-9300	DISTRIBUTOR / MANUFACTURER 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: (H₂O=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/m³/2H: (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: Consumer commodity, ORM-D
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: 10/09
PERSON RESPONSIBLE FOR MSDS: Ray Madariaga