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## COOLANT

### MATERIAL IDENTIFICATION

Marketer	Muller Sports Medicine, Inc. One Quench Drive Prairie du Sac, WI. 53578
Phone Number:	608-643-8530
Chemical Trade Name, synonyms:	NA
Chemical Family:	Mixture
Chemical Formula:	Proprietary Formula

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### HAZARDOUS INGREDIENTS

Material	CAS Number	PEL/TLV, Source	Percent
n-Butane	106-97-8	800 ppm, ACGIH	40-45
Isopentane	78-78-4	600 ppm, ACGIH	35-40
1,1,1,2-Tetrafluoroethane	811-97-2	1,000 ppm, ACGIH	15-20
Isopropyl Alcohol	67-63-0	400 ppm, OSHA	<2

### PHYSICAL DATA

Bolling Range	-15° - 180°F
Pressure in can at 70°F	Approx. 48 psig
Vapor Density (Air=1)	Greater than 1.0
Solubility in water	Negligible
Specific Gravity (Water=1)	Less than 1.0
Percent Volatile by weight	100%
Evaporation Rate (BuAce=1)	Greater than 1
Appearance and odor	Clear colorless liquid, slight ether odor

## HAZARDOUS REACTIVITY

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Stability	Stable
Conditions to avoid	Avoid all possible sources of ignition
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Thermal decomposition products include Hydrogen Fluoride, Carbon Monoxide and Carbon Dioxide.

## FIRE AND EXPLOSION DATA

Flammability Category	Flammable (Reference - Consumer Product Commission, flame projection test for aerosol products, per 16 CFR 1500.45)
Flash Point	Less than -100°F, (Estimated for n-Butane)
Flammable Limits	LEL% 1.8 UEL% 8.4 (for n-Butane)
Extinguishing Media	Dry Chemical, CO2, Foam
Unusual Fire and Explosion Hazards	Avoid possible bursting of aerosol can. Do not store where temperature may exceed 120°F. Do not puncture or incinerate.
Special Fire Fighting Procedures	Avoid possible accumulations of vapors at floor level, as vapor is heavier than air. Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

## HEALTH HAZARD INFORMATION

Suggested Exposure Guideline 400 ppm

Primary Route of Exposure	Inhalation, skin contact
Inhalation	High concentrations of vapors is harmful and may cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air.
Skin Contact	Untested May cause frostbite
Eye Contact	Untested
Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

## FIRST AID

Inhalation	Remove to fresh air. Artificial respiration, consult physician.
Skin Contact	Wash with soap and water. Remove soaked clothing to avoid prolonged skin contact.
Eye Contact	Flush eyes well with running water for 15 minutes.
Ingestion	Call Physician or poison control center immediately. Proper treatment is dependent on condition of patient and amount ingested.

## SPILL OR LEAK PROCEDURES

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Steps to be taken in case material is released or spilled

Remove or extinguish ignition or combustion sources. Evacuate enclosed spaces until gas is dispersed. Keep upwind. Stop leak if possible without risk. Disperse gas with floor-level forced-air ventilation. Exhaust vapors outdoors. Remove all flames, heating elements and gas.

Waste disposal method

Dispose of in accordance with all local, state and federal regulations.

## SPECIAL PROTECTION INFORMATION

Respiration Protection

If TLV is exceeded wear NIOSH-approved self-contained breathing device or respirator.

Ventilation

Must be adequate to maintain vapors at less than 400 ppm, particularly at floor level as vapors are heavier than air.

Protective gloves

None needed for normal use. Use synthetic rubber such as Neoprene if prolonged exposure is likely.

Eye Protection

Safety glasses or goggles recommended

## HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in handling and storage

Do not store where temperature may exceed 120°F. Store away from, fire, sparks, or flame.

## SPECIAL PRECAUTIONS

Precautions for usage

Do not use near heat, fire, flame or sparks. Avoid excessive breathing of vapor. Use only in accordance with directions.

*Notice: This data represents typical values, not product specifications. No guarantee of accuracy or completeness is made. No responsibility is assumed for any kind of loss or damages arising from use of this data.*

*End of MSDS*