

MATERIAL SAFETY DATA SHEET

Quick Identifier (In Plant Common Name): S & S PRECISION PARTS CLEANER

MANUFACTURER INFORMATION

MANUFACTURER'S NAME: S & S NONLIMITED INC.
ADDRESS: P. O. Box 93, Succasunna, NJ 07876
EMERGENCY TELEPHONE NUMBER: 201-584-4048
OTHER INFORMATION CALLS: 201-584-4048
NAME OF PERSON RESPONSIBLE FOR PREPARATION:
DATE PREPARED: August 21, 2012

SECTION 1 - IDENTITY

COMMON NAME (used on label)(Trade Name & Synonyms): S & S PRECISION PARTS CLEANER
CAS. NUMBER: See Section 2
CHEMICAL NAME: 1,1-Dichloro-1-Fluoroethane
CHEMICAL FAMILY: Solvent Cleaner
FORMULA: M-5329

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s)	Principal Hazardous Component(s)							
	CHEMICAL AND COMMON NAME(S)	CAS. #	OSHA PEL	AGCIH TLV	PRESSURE @ 25 DEG. C.	LEL	UEL	FLASH POINT DEG. F
N-Propyl Bromide**	106-94-5	Not Established	Not Established	111mmHg	4.0	7.8	None	65 - 75
1,1,1,2-Tetrafluoroethane	811-97-2	1000ppm	1000ppm	96 psia	Nonflammable		None	20 - 30
n-Propanol	71-23-0	400ppm	400ppm	N/A	N/A	N/A	N/A	<3
Carbon Dioxide	124-38-9	5000ppm	N/A	1 atm.	None		None	<5

**NOTE: This product contains ingredients subject to Section 313 of SARA Title III

**Limit established for N-PB by Manufacturer is 100 ppm

N-Propyl Bromide is listed on California's Proposition 65 as a chemicals known to cause cancer, birth defects or other reproductive harm.

N/A is not available or not applicable

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

BOILING POINT (Deg. F): Concentrate Range: 75
SPECIFIC GRAVITY (Water = 1): Concentrate: 1.2
Propellant: -109.2
VAPOR PRESSURE (mmHg): See Section 2
PERCENT VOLATILE BY WEIGHT (%): 100%

VAPOR DENSITY (Air = 1): >1

EVAPORATION RATE (BA = 1): >1

SOLUBILITY IN WATER: Negligible

REACTIVITY IN WATER: None

APPEARANCE AND ODOR: **CONCENTRATE:** Clear liquid, irritating odor at high concentrations; **PROPELLANT:** Colorless, odorless gas; **FINISHED PACKAGE:** Pressurized containers.

FLASH POINT: See Section 2

FLAMMABLE LIMITS IN AIR - % BY VOLUME: See Section 2

EXTINGUISHER MEDIA: Water fog, dry chemical, carbon dioxide

AUTO-IGNITION TEMPERATURE: Unknown

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained, positive pressure, respiratory equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Self-pressurized aerosol containers. Keep temperature of containers below 120 deg. F. to prevent bursting. Hazardous decomposition products.

SECTION 4 - PHYSICAL HAZARDS

STABILITY: Stable

CONDITIONS TO AVOID: Avoid any excessive heat, ignition sources, open flames, or other high temperatures which induce thermal decomposition.

INCOMPATIBILITY (Materials to Avoid): Chemically Active Metals. Oxidizing agents. Sodium, Potassium, Calcium, etc. Alkali or alkaline earth metals. Powdered Aluminum, Zinc, Magnesium, Beryllium, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Hydrofluoric acid, small amounts of Phosgene and Chlorine. See SECTION 5 - HEALTH HAZARDS: Signs and Symptoms of Exposure.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not Applicable

SECTION 5 - HEALTH HAZARDS

THRESHOLD LIMIT VALUE: See Section 2

SIGNS AND SYMPTOMS OF EXPOSURE: **EYE CONTACT:** Contact with liquid or mist may cause irritation. Vapors may irritate eyes; **SKIN CONTACT:** Prolonged contact may cause irritation, defatting of skin; **INHALATION:** Overexposure to vapor may cause dizziness, loss of concentration and irritation. With high exposure levels, effects can include central nervous system (CNS), depression (intoxication) and cardiac arrhythmia. Product vapors displace air and can cause suffocation especially in confined space. **INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THE CAN MAY BE HARMFUL OR FATAL;** **INGESTION:** Single dose oral toxicity low. Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: No

I.A.R.C. MONOGRAPHS: No

OSHA: No

OSHA PERMISSIBLE EXPOSURE LIMIT: See Section 2

ACGIH THRESHOLD LIMIT VALUE: See Section 2

OTHER EXPOSURE LIMIT USED: None

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs. Call a physician. **EYES:** Flush with water for at least 15 minutes. Get medical assistance if irritation persists. **SKIN:** Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse. **INGESTION:** Do not induce vomiting. Call a physician immediately.

SECTION 6 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.

VENTILATION:

LOCAL EXHAUST: To keep below TLV

MECHANICAL (General): To keep below TLV

SPECIAL: None

OTHER: None

PROTECTIVE GLOVES: Solvent resistant gloves - impervious gloves

EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None reasonably foreseeable.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store above 110 deg. F. Avoid breathing vapors. Avoid prolonged or repeated contact with skin.

OTHER PRECAUTIONS: Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **SMALL**

SPILLS: Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment. **LARGE SPILLS:** Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

SECTION 8 – NFPA HAZARD RATINGS

Health = 2 Flammability = 0 Reactivity = 0

Section 9 - Other Information

TRANSPORTATION INFORMATION – DOMESTIC GROUND

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D
UN Number:	N/A
Packing Group:	N/A
Hazard Label:	None
Carton Marking:	Consumer Commodity, ORM-D

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