



Safety Data Sheet

DSC Products Inc.

SDS#: 2021B

Date Revised : 01/17/2014

SECTION 1: PRODUCT/COMPANY IDENTIFICATION

Manufacturer Name	DSC PRODUCTS INC	24 Hour Emergency Telephone	(231) 739-2068
Address	1979 Latimer Dr.		
	Muskegon, MI 49442-6229		
	(231) 777-3012		
Trade Name	TROUNCE		Dry Cleaner
Chemical Family	Cleaning Solvent	Formula	N/A

SECTION 2: HAZARD IDENTIFICATION

	Health	Fire	Reactivity	Special	Personal Protection Index
NFPA	1	0	0	1	B
HMIS	1	0	0	1	B

Trounce has no flash point and is non-flammable per OSHA and DOT regulations

Potential Health Effects:

INHALATION: High concentrations are irritating to the respiratory tract and may cause headache, dizziness, nausea, vomiting or narcosis. Chronic overexposure at high levels may cause adverse effects in the central Nervous system, reproductive system, respiratory system, kidney and liver. Persons having pre-existing diseases Of the lungs, eyes or skin may have an increased susceptibility to the hazards of excessive exposure.

OCULAR: Irritant to eyes.

DERMAL: Irritant. May de-fat skin and /or cause rash

INGESTION: Irritant to mouth, mucous membranes and gastro-intestinal tract.

GHS Classifications:

GHS Phrases:

GHS Precautionary Statements:

GHS Pictograms:



SECTION 3: HAZARDOUS INGREDIENTS

Name/Common Name	% (optional)	Cas.No.	OSHA PEL	ACGIH TLV (source)
Odorless Mineral Spirits		64742-48-9		
n-Propyl Bromide		106-94-5		



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SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

Eyes	Flush eyes with water for a least 15 minutes. Seek emergency medical attention
Skin	Wash contaminated areas with soap and water
Ingestion	Drink large amounts of water. DO NOT induce vomiting. Seek emergency medical attention
Inhalation	Move person to fresh air. Give oxygen if breathing is difficult. Apply CPR respiration if individual is not breathing

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.)	None	Boiling	None to limits
Flammable Limits	3.8 to 9.5% by volume in air	Upper	Lower
Extinguishing Media	Base on surrounding conditions	Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	Do not weld or torch cut drums containing residual vapors, as vapors may be in the flammable range and an explosion could occur. Thermal decomposition may produce carbon monoxide, carbon dioxide, hydrogen halide and bromides.		

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to be taken if released or spilled	Contain Spillage
Waste disposal methods	Absorb with non-combustible absorbent material and place in closed container for disposal.

SECTION 7: STORAGE AND HANDLING INFORMATION



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Wear safety glasses. Use gloves when contact with product may occur
Other: KEEP OUT OF REACH OF CHILDREN
Store in well ventilated, cool, dry area. Keep container closed when not in use. Do not mix with other chemicals

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection		Use full face piece, NIOSH approved organic vapor respirator if ventilation is not sufficient	
Ventilation	Local	Mechanical	Other
Protective Gloves/Clothing	Use gloves when contact with product may occur. However, DO NOT use natural rubber gloves when handling this product. Viton or Silvershield gloves offer the best extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only.	Eye Protection	Always wear safety goggles or full face shield
Other Protective Clothing or Equipment		Protect parts of body that may come in contact with product	
Work/Hygienic Practices		Wash with soap and water after contact Do not eat, drink or smoke while working with this product. Launder soiled clothes. Provide emergency eye bath and safety shower	

SECTION 9: PHYSICAL DATA

Boiling Point (degrees F)	158	Specific Gravity (H2O=1.0)	1.10	pH	N/a
Vapor Pressure (mm Hg)	134	Vapor Density (Air = 1)		Melting Point (degrees F)	N/A
Solubility in Water	Complete	Invisible	Emulsible (or dispersible)	Slight (or partial) X	
Evaporation Rate (vs. H2O)		Faster X	Slower	About the same	
Appearance and Odor			Clear, liquid		



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SECTION 10: REACTIVE DATA

Stability	Stable	Incompatibility	Strong oxidizing agents, bases, reactive metals and rubber.
Hazardous Decomposition Products	None	Hazardous Polymerization	Thermal decomposition produces carbon monoxide, carbon dioxide, and hydrogen bromide

SECTION 11: TOXICOLOGICAL INFORMATION

Trounce

In human liver cell bioassays, *Trounce* mixtures showed no effects to DNA or for altered enzyme function at all cell concentrations tested and no effects for acute cytotoxicity at cell concentrations below 500 ppm.

N propyl bromide

LD 50 oral rat: 4,260 mg/kg

LC 50 inhalation rat: 30min. 50,291 ppm

4hr 14,374 ppm

nPB is not listed as a carcinogen by NTP or IARC. NTP is currently reviewing scientific data to determine if a PB should be listed in the ROC. High concentrations are irritating to the respiratory tract and may cause headache, dizziness, nausea, vomiting or narcosis. Chronic overexposure at high levels may cause adverse effects in the central nervous system, reproductive system, respiratory system, kidney and liver. Persons having pre-existing diseases of the lungs, eyes or skin may have an increased susceptibility to the hazards of excessive exposure.

SECTION 12: ECOLOGICAL INFORMATION

Available data on the organic carbon partition coefficient (K_{oc}) the breakdown processes in water and hydrolysis half-life, and the volatilization half-life indicate that nPB is less persistent in the environment than many solvents and would be of low to moderate concern for movement in soil. Based on the LC₅₀ the acute concentration at which 50% of tested animals die, nPB's toxicity to aquatic life is moderate, being less than that for...trichloroethylene, hexane, d-limonene, and possibly some aqueous cleaners. Based on EPA's criteria for listing under the Toxics Release Inventory (U.S. EPA, 1992), we believe that nPB would not be sufficiently toxic to aquatic life to warrant listing under the Toxics Release Inventory. Based on its relatively low bioconcentration factor and log K_{ow} value, nPB is not prone to bioaccumulation. (USEPA-Federal Register May 30, 2007).

K_{oc} : ORGANIC-CARBON PARTITION COEFFICIENT:	330
BREAK DOWN IN WATER:	HYDROLYSIS IS SIG.
HYDROLYSIS HALF-LIFE:	26 DAYS
VOLATILIZATION HALF-LIFE FROM SURFACE WATERS:	3.4 Hours -4.4Days
LC ₅₀ (96 HOURS) FOR FATHEAD MINNOWS:	67 mg/l
LOG K_{ow}	2.10
BIOCONCENTRATION FACTOR:	23



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SECTION 13: DISPOSAL CONSIDERATIONS

Follow Federal, State and Local governmental regulations. DO NOT flush into sanitary sewer or waterway.

SECTION 14: TRANSPORTATION INFORMATION

Hazardous material description: Not regulated for transportation
DOT Description/Proper Shipping Names: Non Hazardous Cleaning Solvent Mixture

SECTION 15: REGULATORY INFORMATION

NAFTA: 3814.00.50.90 Preference Criteria B – Originating in NAFTA territory
TCSA: All of the components of this product are in the EPA TSCA inventory and are in Compliance with 15 USC 2601-2629.
NESHAP: N/A
RCRA: N/A
HAP: N/A
VOC: 1,314.2g/l – 11 lbs/gal
SARA: SARA 313 Components subject to reporting: 1,2-butylene oxide CAS 106-88-7<0.6% By weight; sec-Butyl alcohol CAS 78-92-2<1.2% by weight.
CERCLA: 40 CFR 302.4 Component: 1,2-butylene oxide CAS 106-88-7<0.6% by weight.
STATE REGULATION: n-Propyl bromide: Known to the State of California to cause reproductive effects. CAL/OHA PEL 5 ppm
Nitromethane: Known to the State of California to cause cancer. NJ-RTK.
1,2-Butylene oxide: NJ-RTK
SNAP: The Environmental Protection Agency (EPA) approved n-propyl bromide (nPB) as an Acceptable substitute for ozone depleting compounds in the precision cleaning sector Under the Significant New Alternatives Program (SNAP) Section 612 Clean Air Act. (USEPA – Federal Register May 30, 2007).
WHMIS: Class D Division 2B, WHMIS – HC – 1
EEC (EINECS): Ingredients Listed
CANADA (DSL): Ingredients Listed
JAPAN (MITI): Ingredients Listed
AUSTRALIA (AICS): Ingredients Listed
SOUTH KOREA (ECL): Ingredients Listed

SECTION 16: OTHER INFORMATION



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Notice: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.