

Synonyms: BD1096 BD1096-1
MATERIAL SAFETY DATA SHEET

-----SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

PREPARE DATE: 01/25/10

-----SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS -----

EXPOSURE LIMITS:

ITEM	ACGIH		OSHA		COMPANY TLV-TWA	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING		
01	50 PPM	N.E.	500 PPM		N.E.	YES
02	500 PPM	750 PPM	1000 PPM	N.E.	N.E.	NO
03	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

MSDS
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B A R N E S D I S T R I B U T I O N

-----SECTION 3 - HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

CAUSES EYE IRRITATION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. ASPIRATION HAZARD. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CONTENTS UNDER PRESSURE!

MAY ENTER LUNGS AND CAUSE DAMAGE.

EFFECTS OF OVEREXPOSURE - EYE CONTACT:

CAUSES IRRITATION, REDNESS, AND PAIN CAUSES MODERATE TO SEVERE EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:

CAUSES SKIN IRRITATION. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).

EFFECTS OF OVEREXPOSURE - INHALATION:

PROLONGED INHALATION MAY BE HARMFUL. INHALING LARGE QUANTITIES OF MIST OR VAPORS MAY CAUSE SOME IRRITATION TO NOSE, THROAT, LUNGS. AVOID BREATHING MISTS FROM THIS PRODUCT. EXPOSURE TO HIGH DOSES MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION (ANESTHETIC-LIKE EFFECTS). DOSES WHICH CAUSE ANESTHETIC-LIKE EFFECTS MAY ALSO CAUSE ADVERSE EFFECTS IN LIVER, LUNGS, AND KIDNEYS.

EFFECTS OF OVEREXPOSURE - INGESTION:

INGESTION IS NOT CONSIDERED TO BE A HAZARD ENCOUNTERED IN NORMAL INDUSTRIAL USE. THIS MATERIAL MAY BE HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. DEPRESSION OF THE CENTRAL NERVOUS SYSTEM CAN OCCUR.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:

OVEREXPOSURE MAY CAUSE NERVOUS SYSTEM DAMAGE. REPEATED CONTACT WITH SKIN MAY IRRITATE PRE-EXISTING SKIN CONDITIONS.

PRIMARY ROUTE(S) OF ENTRY:

SKIN CONTACT
SKIN ABSORPTION
INHALATION
INGESTION
EYE CONTACT

-----SECTION 4 - FIRST AID MEASURES -----

FIRST AID - EYE CONTACT:

HOLDING EYELIDS OPEN, FLUSH EYES WITH RUNNING WATER. REMOVE CONTACT LENSES IF WEARING AND FLUSH OPEN EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

MSDS
ORDER NO: RELEASE NO: MSDS NO:

B A R N E S D I S T R I B U T I O N

FIRST AID - SKIN CONTACT:
WASH WITH SOAP AND LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING.
GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

FIRST AID - INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF
BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

FIRST AID - INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.

-----SECTION 5 - FIRE FIGHTING MEASURES -----

FLASH POINT (PENSKEY-MARTENS C.C.): -141 F

LOWER EXPLOSIVE LIMIT: 1.0 %
UPPER EXPLOSIVE LIMIT: 12.8 %

AUTOIGNITION TEMPERATURE: ND

EXTINGUISHING MEDIA:
ALCOHOL FOAM
CO2
DRY CHEMICAL
FOAM
WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR. VAPORS CAN TRAVEL TO A SOURCE
OF IGNITION AND FLASH BACK. EXTREMELY FLAMMABLE. MATERIAL WILL READILY
IGNITE AT ROOM TEMPERATURES IN THE PRESENCE OF AN IGNITION SOURCE. "EMPTY"
CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE
DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR
EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER
SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. CONTENTS
UNDER PRESSURE. CONTAINERS MAY EXPLODE IF EXPOSED TO HIGH TEMPERATURES.

SPECIAL FIREFIGHTING PROCEDURES:
CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT (FIRE). AS IN ANY FIRE,
WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED
OR EQUIVALENT) AND FULL PROTECTIVE GEAR. KEEP CONTAINERS AND SURROUNDINGS
COOL WITH WATER SPRAY. BEWARE OF VAPORS ACCUMULATING TO FORM EXPLOSIVE
CONCENTRATIONS. VAPORS CAN ACCUMULATE IN LOW AREAS.

-----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
USE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT
MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER.
AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. DO NOT

MSDS
ORDER NO: RELEASE NO: MSDS NO:

 B A R N E S D I S T R I B U T I O N
FLUSH INTO SURFACE WATER OR SANITARY SEWER SYSTEM.

-----SECTION 7 - HANDLING AND STORAGE -----

AEROSOL LEVEL: 3

HANDLING:
WASH THOROUGHLY AFTER HANDLING. ENSURE ALL EQUIPMENT IS ELECTRICALLY
GROUNDED BEFORE BEGINNING TRANSFER OPERATIONS. USE ONLY IN WELL-VENTILATED
AREA.

STORAGE: KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP FROM FREEZING.

KEEP OUT OF THE REACH OF CHILDREN!

DO NOT STORE ABOVE 120F (49C). DO NOT SPRAY INTO OPEN FLAME OR NEAR OTHER
SOURCES OF IGNITION. DO NOT STORE IN DIRECT SUNLIGHT, PUNCTURE, CRUSH OR
INCINERATE CONTAINER.

-----SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION -----

ENGINEERING CONTROLS:
LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS
TO WITHIN THEIR TLVS DURING THE USE OF THIS PRODUCT. USE EXPLOSION-PROOF
VENTILATION EQUIPMENT.

RESPIRATORY PROTECTION:
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR
CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE
AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS. PROTECTION
PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE
AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED
RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE
AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY
PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST
BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION: IMPERVIOUS GLOVES SHOULD BE USED.

EYE PROTECTION:
WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES WHEN USING THIS PRODUCT.

OTHER PROTECTIVE EQUIPMENT:
STANDARD INDUSTRIAL CLOTHING STANDARDS SHOULD BE FOLLOWED.

HYGIENIC PRACTICES:
WASH HANDS BEFORE EATING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE
REUSE. USE ONLY IN A WELL VENTILATED AREA. FOLLOW ALL MSDS/LABEL PRECAUTIONS
EVEN AFTER CONTAINER IS EMPTIED BECAUSE THEY MAY RETAIN PRODUCT RESIDUES.
USE SPARK-PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT. AVOID PROLONGED OR
REPEATED CONTACT WITH SKIN. AVOID BREATHING VAPORS FROM HEATED MATERIAL.

MSDS
ORDER NO: RELEASE NO: MSDS NO:

 B A R N E S D I S T R I B U T I O N
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

BOILING RANGE: -23 - 158 F

VAPOR DENSITY: IS HEAVIER THAN AIR

ODOR: SOLVENT

ODOR THRESHOLD: ND

APPEARANCE: WHITE

EVAPORATION RATE: IS FASTER THAN BUTYL ACETATE

SOLUBILITY IN H2O: NEGLIGIBLE

FREEZE POINT: ND

SPECIFIC GRAVITY: 0.6693

VAPOR PRESSURE: ND

pH @ 0.0 %: NA

PHYSICAL STATE: AEROSOL

VISCOSITY: ND

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

VOLATILE ORGANIC COMPOUNDS (VOCs):

3.70 LBS/GAL

444 GRAMS/LTR

VOC, % (WT): 77.31%

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

-----SECTION 10 - STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:

AVOID OPEN FLAMES AND HIGH TEMPERATURES. AVOID CONTACT WITH STRONG OXIDIZING AGENTS. ALL SOURCES OF IGNITION, WELDING ARCS, AND OPEN FLAMES.

INCOMPATIBILITY:

MAY REACT WITH OXYGEN AND STRONG OXIDIZING AGENTS SUCH AS CHLORATES, NITRATES, PEROXIDES, ETC. AVOID CONTACT WITH STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MSDS
ORDER NO: RELEASE NO: MSDS NO:

 B A R N E S D I S T R I B U T I O N
SMOKE, FUMES, OXIDES OF CARBON, NITROGEN, SILICA, AND VARIOUS METAL OXIDES
ARE POSSIBLE DECOMPOSITION PRODUCTS. CARBON MONOXIDE, CARBON DIOXIDE, SMOKE,
FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

-----SECTION 11 - TOXICOLOGICAL PROPERTIES -----

PRODUCT LD50: 5800 MG/KG
PRODUCT LC50: 50100 PPM

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
HEXANE	12705 MG/KG/RAT	150000 MG/M3/MOUSE
2-PROPANONE	5800 MG/KG/RAT	50100 MG/M3/8H/RAT
PROPANE/ISOBUTANE/N-BUTANE	NE	NE
POLYTETRAFLUOROETHYLENE	NE	NE

-----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: NO INFORMATION.

-----SECTION 13 - DISPOSAL CONSIDERATIONS -----

DISPOSAL METHOD:
DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

-----SECTION 14 - TRANSPORTATION INFORMATION -----

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY
DOT TECHNICAL NAME:
DOT HAZARD CLASS: ORM-D
HAZARD SUBCLASS:
DOT UN/NA NUMBER:
PACKING GROUP:
RESP. GUIDE PAGE:
DOT EXEMPTIONS:
DOT SPECIAL INSTRUCTIONS:

IMDG SHIPPING INFORMATION: UN1950
IMDG PROPER SHIPPING NAME: AEROSOLS
IMDG TECHNICAL NAME:

MSDS
ORDER NO: RELEASE NO: MSDS NO:

B A R N E S D I S T R I B U T I O N

IMDG HAZARD CLASS: 2.1
HAZARD SUBCLASS:
PACKING GROUP:
FLASH POINT, C: -96.4
IMDG EXEMPTIONS: LIMITED QUANTITY
IMDG SPECIAL INSTRUCTIONS:
MARINE POLLUTANT (YES/NO): N

IATA SHIPPING INFORMATION: UN1950
IATA PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE
IATA TECHNICAL NAME:
IATA HAZARD CLASS: 2.1
HAZARD SUBCLASS:
PACKING GROUP:
IATA EXEMPTIONS: LIMITED QUANTITY
IATA SPECIAL INSTRUCTIONS:

-----SECTION 15 - REGULATORY INFORMATION -----

U.S. FEDERAL REGULATIONS: AS FOLLOWS

OSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA 'HAZARD CATEGORIES'
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD
CHRONIC HEALTH HAZARD
FIRE HAZARD
PRESSURIZED GAS HAZARD

SARA SECTION 313:
THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING
REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND
REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % IS LESS THAN
HEXANE	64742-49-0	50-60

TOXIC SUBSTANCES CONTROL ACT:
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE
REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

CHEMICAL NAME	CAS NUMBER
POLYTETRAFLUOROETHYLENE	9002-84-0

U.S. STATE REGULATIONS: AS FOLLOWS

MSDS
ORDER NO: RELEASE NO: MSDS NO:

B A R N E S D I S T R I B U T I O N

NEW JERSEY RIGHT-TO-KNOW:
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE
COMPONENTS IN THIS PRODUCT:

CHEMICAL NAME	CAS NUMBER
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POLYTETRAFLUOROETHYLENE	9002-84-0
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PENNSYLVANIA RIGHT-TO-KNOW:
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT
GREATER THAN 3%:

CHEMICAL NAME	CAS NUMBER
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NO NON-HAZARDOUS INGREDIENTS ARE PRESENT AT GREATER THAN 3%.

CALIFORNIA PROPOSITION 65:

WARNING:
THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE KNOWN TO THE
STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE
HARM:

CHEMICAL NAME	CAS NUMBER
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NO PROPOSITION 65 CHEMICALS EXIST IN THIS PRODUCT.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT
REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: A, B5, D2B

-----SECTION 16 - OTHER INFORMATION -----

HMIS RATINGS:
HEALTH 1
FLAMMABILITY 4
REACTIVITY 0

PREVIOUS MSDS REVISION DATE: 10/14/09

REASON FOR REVISION:
UPDATE PHYSICAL PROPERTIES, AEROSOL LEVEL AND TRANSPORTATION INFORMATION,
ADD WHMIS.

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED

MSDS
ORDER NO: RELEASE NO: MSDS NO:

B A R N E S D I S T R I B U T I O N

N.D. - NOT DETERMINED

DISCLAIMER:
THIS MSDS IS NOT FOR REPRODUCTION OR DISTRIBUTION:
THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE
ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL
FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

PRODUCT: A-6178 0718-47

PREPARATION DATE: 01/25/10