

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
 MSDS Number: 80003D
 Version Number
 MSDS Date: 10182001
 Page Number: 1 of 8

SECTION I - PRODUCT IDENTIFICATION

Product Name: BACOLAC #253
 CAS Number MIXTURE
 Hazard Rating: Health: 3 Fire: 3 Reactivity: 1 PPI: G

Company Identification: DELL MARKING SYSTEMS, INC
 821 WANDA AVENUE
 FERNDALE MI 48220

Contact: CHEMTREC
 Telephone/Fax: (248) 547-7750 (248) 544-9115
 Emergency Phone (24 Hour): CHEMTREC
 1-800-424-9300
 Chemtrec (24 Hour): 1-800-424-9300

Product Class #253
 Trade Name BACOLAC #253
 Product Code 80003D
 DOT Hazard Class FLAMMABLE LIQUID
 UN Number UN1210
 Shipping Name INK
 Technical Name
 Shipping Description 3, UN1210, PG II

SECTION II - HAZARD INGREDIENTS

Ingredient Name	CAS NUMBER	PERCENT	TSCA	VP(mm Hg)
N-BUTYL ACETATE	123-86-4	5-20	Y	10
*TOLUENE	108-88-3	5-20	Y	22
RESIN	9004-70-0	5-20	Y	N/A
LOW AROMATIC NAPHTHA	8032-32-4	5-20	Y	5.2
*XYLENE	1330-20-7	1-5	Y	6.6

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
 MSDS Number: 80003D
 Version Number
 MSDS Date: 10182001
 Page Number: 2 of 8

ISOPROPANOL	67-63-0	1-5	Y	96
ETHYL ACETATE	141-78-6	1-5	Y	86
*METHYL ISOBUTYL KETONE	108-10-1	1-5	Y	15
ETHYL ALCOHOL	64-17-5	1-5	Y	43

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

N.E. = Not Established

* Indicates a Chemical subject to SARA Title III, section 313 release reporting (EPA Regulation 40 CFR 372).

SECTION III - PHYSICAL DATA

Form:	THIN CLEAR LIQUID WITH SOLVENT ODOR
pH Value:	NA
Boiling Range:	171. F - 342. F (77.22 C - 172.22 C)
Melting Point:	NA
Evaporation Rate:	Faster than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile Weight	35.33%
% Volatile (Volume):	38.35%
Specific Gravity:	0.91066

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class	1B
Flash Range:	23. F - 103. F (-5. C - 39.44 C)
LEL / UEL:	0.9% 19.9%

EXTINGUISHING MEDIA:

Use "alcohol" foam, water spray, dry chemical, or carbon dioxide to put out fires. Use media suitable for surrounding fire. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

SPECIAL FIREFIGHTING PROCEDURES:

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
MSDS Number: 80003D
Version Number
MSDS Date: 10182001
Page Number: 3 of 8

Clear area of unprotected personnel. Firefighters should wear NIOSH-approved, self-contained breathing apparatus. Use water spray to cool fire-exposed surfaces. Also, use water to flush spilled material away from source. Vapors are harmful; stay upwind of a fire to minimize breathing of vapors, gases, fumes or decomposition products being generated.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Containers exposed to intense heat from fire must be cooled to prevent vapor pressure build-up which may result in container rupture. Cool containers exposed directly to flames with large quantities of water as needed to prevent weakening of container itself. Never use a welding or cutting torch on or near container.
EMPTY CONTAINER WARNING: "EMPTY" containers contain

residues (liquid, solid, and/or vapor) that can be dangerous. DO NOT pressurize, cut, weld, braze, grind, drill, solder or expose containers to heat, sparks, open flame. They may explode and cause injury and/or death. DO NOT attempt to clean drums. Residues are difficult to remove. "EMPTY" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. Dispose of all containers in an environmentally safe way and in accordance with governmental regulations. For work on tanks, refer to OSHA regulations ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other operations.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

Avoid contact with skin and clothing. Avoid breathing vapors. Use with adequate ventilation to maintain levels below PEL.

EFFECTS OF OVEREXPOSURE:

INHALATION: Vapors can cause irritation to nose, throat and respiratory tract. High vapor concentrations may result in central nervous system (CNS) depression evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness and death can occur.

SKIN: Prolonged or repeated contact with liquid can cause drying and/or defatting of the skin which may promote dermatitis

and irritation. ABSORPTION: Some components may absorb

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
MSDS Number: 80003D
Version Number
MSDS Date: 10182001
Page Number: 4 of 8

through the skin and cause CNS effects similar to inhalation.

EYES: Direct eye contact with liquid will cause burning, redness and tearing. Contact with vapors are irritating to eyes.

INGESTION: Swallowing of product will cause gastrointestinal distress, nausea, vomiting and/or diarrhea. Material is moderately toxic by ingestion.

AGGRAVATED MEDICAL CONDITION: Pre-existing skin and respiratory disorders may be aggravated by this product.

FIRST AID:

INHALATION: Remove victim to fresh air. If breathing difficulties develop, administer oxygen and get medical attention. If victim is not breathing, administer artificial respiration and get medical attention.

SKIN: Flush affected areas with large amounts of water, remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation or redness persists or develops, get medical attention.

EYES: Immediately flush eyes with a directed stream of water for at least 15 minutes while holding eyelids open. If irritation or redness develops or persists, get medical attention.

INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. (Aspiration pneumonitis can be fatal.) Give victim lukewarm water if conscious and alert. GET IMMEDIATE MEDICAL ATTENTION.

Ingestion of as little as 10 ml of Isopropanol may cause serious injury, while ingestion of 100 ml can be fatal. The single lethal dose for an adult is approximately 250 ml. FOR INGESTION OF ISOPROPANOL: Give victim milk or water. Induce vomiting by sticking finger to back of throat. Contact a physician or POISON CONTROL CENTER.

SECTION VI - REACTIVITY DATA

Stability: This product is stable

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
MSDS Number: 80003D
Version Number
MSDS Date: 10182001
Page Number: 5 of 8

Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY
Strong oxidizing agents.

Anhydrous Neosol reacts with aluminum at high temperatures.
CONDITIONS TO AVOID:
Heat, sparks, open flame, and static discharge.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic combustion products.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate all sources of ignition. Ground handling equipment to prevent static discharge and sparking. Insure adequate ventilation. Recover small amounts of material by absorbing with an inert absorbent and scooping into properly labeled disposal drum. For large spills, evacuate area. Allow only properly trained and equipped personnel in area. Shut off source of leak only when safe to do so. Dike and contain material. If vapor cloud forms, water fog may be used to suppress it. Contain run-off water. Remove with vacuum truck or pump into grounded salvage vessel. Absorb residue with inert absorbant and place into properly labeled disposal drum. Do not allow run-off water or product to enter sewers or water ways.

WASTE DISPOSAL METHOD:
Licensed waste treatment facility or reclaimer.

The reportable quantity for Toluene is 1000 lbs.
The hazardous waste number for Toluene is U220.
The hazardous waste number for isopropanol is D001.
There are no reportable quantities listed for isopropanol.

The reportable quantity for N-Butyl Acetate is 5000 lbs.

The hazardous waste number for N-Butyl Acetate is D001.

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
MSDS Number: 80003D
Version Number
MSDS Date: 10182001
Page Number: 6 of 8

The reportable quantity for Methyl Isobutyl Ketone is 5000 lbs.
The hazardous waste number for Methyl Isobutyl Ketone is U161.
The reportable quantity for Xylene is 1000 lbs.
The Hazardous Waste number for Xylene is U239.
The hazardous waste number for anhydrous neosol is D001.
The reportable quantity for ethyl acetate is 5000 lbs.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Occupational Exposure Limits

	ACGIH TLV	ACGIH STEL	OSHA STEL	OSHA PEL
N-BUTYL ACETATE	150.00 PPM	200.00 PPM	200.00 PPM	150.00 PPM
*TOLUENE	50.00 PPM	150.00 PPM	150.00 PPM	100.00 PPM
RESIN	N/est	N/est	N/est	N/est
LOW AROMATIC NAPHTHA	300.00 PPM	N/est	N/est	300.00 PPM
*XYLENE	100.00 PPM	150.00 PPM	150.00 PPM	100.00 PPM
ISOPROPANOL	400.00 PPM	500.00 PPM	500.00 PPM	400.00 PPM
ETHYL ACETATE	400.00 PPM	N/est	N/est	400.00 PPM
*METHYL ISOBUTYL KETONE	50.00 PPM	75.00 PPM	75.00 PPM	50.00 PPM
ETHYL ALCOHOL	1000.00 PPM	N/est	N/est	1000.00 PPM

RESPIRATORY PROTECTION:

NIOSH approved for organic vapors. In accordance with 29 CFR 19 10.134. Use either an atmosphere-supplying respirator or an air purifying respirator for organic vapors.

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253
MSDS Number: 80003D
Version Number
MSDS Date: 10182001
Page Number: 7 of 8

VENTILATION:

Use material only with adequate ventilation to prevent exceeding the recommended exposure limit or a buildup of explosive concentrations in the air. Use explosion proof equipment. No smoking or open lights. Air dry contaminated clothing in a well ventilated area before laundering.

PROTECTIVE GLOVES:

Recommended; chemical resistant

The recommended gloves for isopropanol are nitrile, neoprene, or natural rubber.

The recommended glove for Anhydrous Neosol is nitrile.

EYE PROTECTION:

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT:

As required to minimize skin contact depending on use of material. An eyewash and safety shower should be located close to work area. Use explosion proof ventilation as required to control vapor concentrations.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

WORK/HYGIENIC PRACTICES: Ground all equipment to prevent static discharge. Keep containers away from heat, sparks, and open flame. Wash thoroughly with soap and water after handling material.

STORAGE: Keep liquid from heat, sparks, open flame, and all sources of ignition. Surfaces that are sufficiently hot may ignite product even in the absence of sparks or flame. Vapors can accumulate and travel to ignition sources distant from handling site: Flash fire can result. Store material in a cool area and away from direct sunlight. Keep containers closed when not in use. Use material with adequate ventilation.

SEE EMPTY CONTAINER WARNING UNDER UNUSUAL FIRE AND EXPLOSION HAZARDS.

OTHER PRECAUTIONS:

MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253

MSDS Number: 80003D

Version Number

MSDS Date: 10182001

Page Number: 8 of 8

N/AV= Not Available NE=Not established ND=No data found

N/AP= Not Applicable UNK= Unknown

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Employers should use this information only as a supplement to other information to assure proper use of this material and the health and safety of employees.

SECTION X - ADDITIONAL REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
*TOLUENE	108-88-3	5-20
*METHYL ISOBUTYL KETONE	108-10-1	1-5

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
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NONE

-PROP 65 (TERATOGEN)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
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NONE

-PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

WARNING: This product may contain a chemical known to the state of California to cause cancer or birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
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MATERIAL SAFETY DATA SHEET

MSDS Name: BACOLAC #253

MSDS Number: 80003D

Version Number

MSDS Date: 10182001

Page Number: 9 of 8

NONE

Last Page