
SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT ID : 70612
PRODUCT CLASS : URETHANE COATING
TRADE NAME : NEOGARD
PRODUCT USE :
FORMULA ID : D70612
FORMULA VERSION NUMBER : 6
MSDS PREPARATION DATE : 03/04/2004
MANUFACTURER IDENTIFICATION:
NAME : JONES BLAIR COMPANY
ADDRESS : DALLAS DISTRIBUTION CENTER
2728 EMPIRE CENTRAL
P.O. BOX 35286

DALLAS TX 75235

TELEPHONE : 2143531600
EMERGENCY CONTACT : Chemtrec Center
EMERGENCY TELEPHONE : (800) 424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1
CAS# 5989-27-5
Citrus Terpenes (menthadiene)
PCT BY WT: < 5.0 VAPOR PRESSURE: 2.000 MMHG @ 68F LEL .70
EXPOSURE LIMIT:
ACGIH TLV/TWA: NA
OSHA PEL/TWA: NA
LD50: 5000mg/Kg (rat, oral)

2
CAS# 26471-62-5
Toluene Diisocyanate
PCT BY WT: .4030 VAPOR PRESSURE: .030 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: .005 PPM
ACGIH TLV/STEL: .02 PPM
OSHA PEL/TWA: .005 PPM
LC50: 85 PPM (rat-inh,1hr)
LD50: 5100mg/kg (rat-oral)

3
CAS# 124-17-4
2-(2-Butoxyethoxy)ethyl acetate
PCT BY WT: 5-15 VAPOR PRESSURE: .040 MMHG @ 68F LEL .80
EXPOSURE LIMIT:
ACGIH TLV/TWA: NA
OSHA PEL/TWA: NA
LC50: NA
LD50: 6,470mg/kg (Mouse, Oral)

4
CAS# 8052-41-3

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Mineral Spirits Odorless

PCT BY WT: 5-15 VAPOR PRESSURE: .500 MMHG @ 68F LEL 1.00
EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 ppm
 OSHA PEL/TWA: 500 ppm
 LD50: >25ml/Kg(rat-oral)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Primary routes of exposure- inhalation, eye contact and skin contact.

POTENTIAL HEALTH EFFECTS:

EYE:

Liquid and aerosols of this product are irritating and can cause tearing, reddening, swelling and stinging of the eyes.

SKIN:

Excessive skin contact may cause irritation and redness.

Can cause irritation of the skin as evidenced by reddening, swelling, rash scaling or blistering. Some persons may develop skin sensitization.

INHALATION:

Excess inhalation may result in headaches, nausea, lung irritation, and narcosis.

Isocyanate vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to generally reversible bronchitis, bronchial spasm and pulmonary edema. Repeated overexposure causes sensitization in some individuals resulting in asthma-like symptoms on subsequent exposures below the TLV.

Persons with preexisting bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack.

INGESTION:

Moderately toxic by ingestion (unless noted below).

CHRONIC EFFECTS:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

CARCINOGENICITY:

No Carcinogenic properties known unless noted below. (Note: Items may not appear in Section 2 above if present in trace amounts only.)

Contains Carbon Black pigment which is listed by IARC as an animal carcinogen based on the long term, high concentration inhalant exposure of rats. Other animal testing (mice and hamsters) was negative and there is inadequate evidence with respect to humans. IARC has designated Carbon Black as a "Group 2B" or as a "possible" human carcinogen.

Contains a small amount of Toluene Diisocyanate (TDI).

NTP and IARC have listed TDI as an animal carcinogen based on gavage testing. Inadequate evidence for human carcinogenesis was noted and inhalation testing failed to show carcinogenic activity.

Contains solid materials: When subjected to operations such as milling,

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sawing or sanding of the cured coating, the resultant dust constitutes a hazardous dust of the non-volatile noted in Section 2.

TARGET ORGANS:

No Specific data available unless noted below.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:

Flush eyes with water for 15 minutes. If irritation persists, consult a physician.

SKIN CONTACT:

Wipe area off and wash affected skin areas thoroughly with soap and water.

Promptly remove contaminated clothing and wash before reuse.

INHALATION:

Move subject to fresh air.

INGESTION:

If ingested, do not induce vomiting. Consult a physician immediately.

NOTE TO PHYSICIAN:

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL:

Containers may rupture due to very high temperature induced pressure.

Flashpoint : 109.0

Explosion Level : Low - .7

High - 10.7

EXTINGUISHING MEDIA:

Foam, CO2, dry chemical, or sand

FIRE-FIGHTING PROCEDURES AND EQUIPMENTS:

General procedures recommended. Avoid the use of water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CLEAN-UP:

Eliminate any ignition sources.

Evacuate nonessential personnel. Ventilate the area of spill. Put on required personal protective equipment (see section 8). Dike or impound spilled material and cover with inert absorbant material. Shovel or sweep into a disposable container. See section 13. See section 15 for SARA information.

CONTAINMENT:

Dike with inert absorbant material.

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SECTION 7 - HANDLING AND STORAGE

HANDLING:

Keep containers tightly closed.

STORAGE:

Store in protected area.

SPECIAL COMMENTS:

Ideal storage temperature range for ease of handling is 50F to 85F.

Wash hands thoroughly with soap and water after handling as a standard hygienic practice.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION:

Face shield or goggles. Do not wear contact lenses.

RESPIRATORY PROTECTION:

Provide adequate ventilation (see below). For confined areas or when using spray application, wear appropriate, properly fitted respirator (NIOSH/MESA approved) during and after application unless air monitoring demonstrates vapor/mist levels below applicable limits. Follow respirator manufacture's directions for respirator use.

Use an organic vapor respirator recommended (NIOSH approved) for use in isocyanate containing air (air purifying or supplied-air). Observe OSHA regulations for respirator use (29CFR 1910.134). When monomeric isocyanate concentrations are below 0.05ppm (10 times the 8 hour TWA exposure limit), an appropriate combination organic vapor and particulate respirator (NIOSH approved) recommended for isocyanate vapor by the supplier may be used. When airborne isocyanate concentrations are not known, or if either guideline above is exceeded, or when spraying in confined or limited ventilation areas, use a supplied-air respirator.

SKIN PROTECTION:

Wear solvent resistant gloves.

ENGINEERING CONTROLS:

Adequate ventilation in volume and pattern should be provided to keep vapor concentration below LEL and TLV limits. If spray applied, respiratory protection is mandatory.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range : Lower - 310.0
Higher - 490.0
Evaporation Rate : .100 (n-Butyl Acetate = 1)
Melting Point : -N/A
Mechanical Impact Explosion : -N/A
Odor : -N/A
Odor Threshold : -N/A
pH : -N/A

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Vapor Density	:	7.00	
Vapor Pressure	:	2.00	
VOC (lbs/gal)	:	1.712	
Volatile by Volume (%)	:	24.1013	
Volatile by Weight (%)	:	16.4005	
Water Solubility	:	-N/A	
Wt/Gl	:	10.4382	LB/GL

SECTION 10 - STABILITY AND REACTIVITY

INCOMPATIBILITIES:

Strong oxidizing materials.
Water, amines, strong bases, alcohols.

DECOMPOSITION:

When heated, vapors given off are primarily organic acids and thermal decomposition products including carbon dioxide, carbon monoxide and mixed hydrocarbons.

Also, vapors of oxides of nitrogen are given off.

CONDITIONS TO AVOID:

Heat, sparks and open flames.

POLYMERIZATION:

Will not occur (unless noted below).

May occur due to contact with reactive materials (alcohols or amines) or due to exposure to temperatures over 400F.

STABILITY:

This material is stable.

SECTION 11 - TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Vapors and mists of this product are irritating to the eyes.

SKIN EFFECTS:

Excessive skin contact may cause irritation and redness.

ORAL EFFECTS:

Toxic by ingestion.

INHALATION EFFECTS:

Excess inhalation may result in headaches, nausea, lung irritation, and narcosis.

Isocyanate vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to generally reversible bronchitis, bronchial spasm and pulmonary edema. Repeated overexposure causes sensitization in some individuals resulting in asthma-like symptoms on subsequent exposures below the TLV.

Persons with preexisting bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack.

OTHER:

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SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:
ENVIRONMENTAL FATE:

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method. Do not heat or cut empty containers with electric or gas torch.

SECTION 14 - TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT HAZARD CLASS:

3

DOT SHIPPING NAME:

Combustible liquid, n.o.s.

UN/NA NUMBER:

NA1993

DOT PACKING GROUP: III

International Shipment or Air DOT:

Paint, Class 3, UN 1263, PG III

OTHER:

Not Regulated for non-bulk packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150(f)).

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

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:

Toluene Diisocyanate

CAS# 26471-62-5 PCT BY WT: .4030

2-(2-Butoxyethoxy)ethyl acetate

CAS# 124-17-4 PCT BY WT: 5-15

This product is not a marine pollutant. This product is not manufactured with and does not contain ozone depleting substances (unless noted below). All ingredients used to manufacture this product are TSCA listed.

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Based on the presence of components (03) which is/are the subject of a TSCA section 4 test rule, a section 5 SNUR or a section 6 Risk Management Rule. Export of such subject materials requires that a section 12(b) notice be given to EPA by the exporter. (See 40 CFR Chapter 1, Part 707, subpart D, Sections 707.60, 707.65 and 707.67).

Based on the presence of components (03,**)
contains reportable HAPS

STATE REGULATIONS:

Due to the presence of some component(s) (**)
Subject to the reporting requirements under California's Proposition 65 in that this product contains a trace of benzene which appears on the California Safe Drinking Water and Toxics Enforcement Act List of cancer causing and reproductive toxicity agents.

Due to the presence of some component(s) (**)
Subject to the reporting requirements under California's Proposition 65 in that this product contains carbon black which appears on the California Safe Drinking Water and Toxics Enforcement Act List of cancer causing agents.

Based on the presence of components (02)
Subject to the reporting requirements under California's Proposition 65 in that this product contains traces of tolunediiisocyanate which appears on the California Safe Drinking Water and Toxics Enforcement Act List of cancer causing agents.

INTERNATIONAL REGULATIONS:

All ingredients in this product comply with the New Substances Notification Requirements under the Canadian Enviromental Protection Act (CEPA).

SECTION 16 - OTHER INFORMATION

Prepared by :
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MSDS Prepared for :

MSDS Last Prepared :