

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard (29 CFR 1910.1200) and the American National Standards Institute Standard for MSDSs (ANSI Z400.1)

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured For: Nova Pressroom Products LLC Address: 1663 North McDuff Avenue Jacksonville, FL 32254	Identity (trade name as used on label): N-230 All-Purpose, Non-Water-Miscible Roller and Blanket Wash
Date Prepared: 6/22/09	Revision: 4
Information Calls: (866) 443-5811	Prepared By: LMA
DOT Emergency Response: (800) 424-9300	

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: Clear, colourless liquid with slight fresh minty herbal/mild solvent odour. Can cause eye, skin or respiratory tract irritation. Can cause severe lung damage and may be fatal if swallowed. May cause CNS depression. Combustible. Vapours are heavier than air and may travel across the ground and reach remote ignition sources causing a flashback fire. During emergencies, wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep material and run-off from entering sewers, drains or waterways.

Potential Health Effects:

Skin – Prolonged or repeated contact with liquid can cause defatting and drying of the skin, and can lead to irritation and/or dermatitis. May be absorbed through intact skin; however, single, prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Eyes – Contact causes irritation.

Inhalation – Irritating to the respiratory tract. May cause headache, dizziness, anesthetic effects (CNS depression). Breathing high concentrations in an enclosed space or by intentional abuse can cause irregular heartbeats, which can cause death.

Ingestion – May cause nausea, vomiting, diarrhea; possible chemical pneumonitis if aspirated into lungs.

Conditions Aggravated by Exposure: Significant chronic exposure may aggravate existing eye, skin, respiratory system, liver, kidney, and CNS conditions.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	WT. %	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PETROLEUM HYDROCARBON DISTILLATE	64742-48-9	60-70	500	100	d
AROMATIC PETROLEUM DISTILLATE	64742-95-6	30-40	Not Established	Not Established	d
Mixture May Include:			Established	Established	
Cumene* -- Skin Notation	98-82-8	<1	50 (Z1)	50	
Xylene (mixed isomers)*	1330-20-7	<1	100 (Z1)	100 (STEL=150)	
1,2,4-Trimethylbenzene*	95-63-6	5-15	25 (Z1A)	25	
1,3,5-Trimethylbenzene	108-67-8	<5	25 (Z1A)	25	
Diethylbenzene	25340-17-4	<1			

*See SECTION 15 – REGULATORY INFORMATION.

**Chemical Listed as Carcinogen or Potential Carcinogen: a = NTP b = IARC Monograph c = OSHA d = Not Listed e = Animal Data Only

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes; seek immediate medical attention.	Ingestion: Do NOT induce vomiting. Do NOT drink water. Seek immediate medical attention.
Skin Contact: Remove contaminated clothing; launder before re-use. Wash skin with soap and water; if irritated, seek medical attention.	Inhalation: Immediately remove to fresh air. Seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point and Method Used: 107° F (CC)	Auto Ignition Temperature: Not Established	Explosion Limits: % LEL – Not Established % UEL – Not Established
--	--	--

Extinguisher Media: Foam, dry chemical; use water spray to cool exposed surfaces. OSHA Class II Combustible Liquid. Evacuate area and fight fire from a safe distance if fire is contained in small area; otherwise, call the local fire department.

Unusual Fire & Explosion Hazards: Vapours are heavier than air and may accumulate in low or inadequately ventilated areas. Vapours may travel along the ground to be ignited at locations distant from handling site. Flashback or flame to the handling site may occur. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

For small incidental spills and leaks, wear protective gloves and eye protection. Stop source of leak or spill. Isolate area of spill by diking, and/or add dry absorbent to prevent it from entering sewers, drains or waterways. Clean up and place in an appropriate container for disposal. Wash all contaminated clothing before reuse; discard contaminated leather shoes. For larger spill requiring emergency response, follow OSHA emergency response regulations and NIOSH recommendations. If possible, stop source of spill or release. Isolate the area of spill or release by diking to prevent it from entering sewers, drains or waterways. Clean up and place in an appropriate container for disposal.

SECTION 7 – HANDLING/STORAGE

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke in work areas. Use only with adequate ventilation. Avoid using in areas with open flames, welding arcs, extreme heat, or sparks. Keep container closed when not in use. Transfer to bonded and grounded containers only. Avoid storage with acids/bases and strong oxidizers. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapour, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation: Good, general ventilation should be sufficient for most operations. Ten or more room air changes per hour containing a minimum of 15% fresh air are recommended.

Personal Protection: Safety glasses and gloves impervious to the hazardous ingredients are recommended. If used under normal operating conditions, and with adequate ventilation, respiratory equipment is not required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Clear, colourless liquid with slight fresh minty herbal/mild solvent odour.	Boiling Point/Range: 310 – 380° F
Odour Threshold: Not Available	Vapour Density: Not Available
Specific Gravity (Water = 1.00): 0.82 @ 60° F	VOC Composite Vapour Pressure: 2.94 mmHg @ 20° C
Viscosity: Not Established	Solubility in Water: Negligible
pH: Not Applicable	VOC (lbs/gal): 6.73 (USEPA Method 24)
Freezing Point: Not Available	Coefficient of Water/Oil Distribution: Not Available

SECTION 10 – STABILITY AND REACTIVITY

Hazardous Polymerization: Will NOT occur; product is stable.

Hazardous Decomposition Products: Includes, but not limited to smoke, fumes, oxides of nitrogen, oxides of carbon.

Materials and Conditions to Avoid: All potential sources of ignition. Avoid contact with strong oxidizers and strong acids/bases.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50 (oral, rat): No data available.

Acute Overexposure: May cause eye, skin, and respiratory tract irritation.

Chronic Overexposure: Overexposure to the aromatic petroleum distillate (or its components) has been suggested as a cause of the following effects in laboratory animals: cataracts; mild, reversible liver effects; mild, reversible kidney effects; and blood abnormalities. Overexposure to the aromatic petroleum distillate (or its components) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain. Reports have associated repeated and prolonged overexposure to solvents with irreversible brain and nervous system damage, sometimes referred to as “Solvent or Painter’s Syndrome.”

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Chemical Fate Data: No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Hazardous Waste Characterization: D001 (Ignitable Characteristic).

Recommendation: Dispose of materials associated with cleaning up spills and/or leaks according to federal, state and local regulations for ignitable waste. Consult appropriate federal, state and local regulations to determine proper characterization of used product contaminated with other printing process products.

SECTION 14 – TRANSPORT INFORMATION

Ground Shipping (US DOT 49 CFR): Reclassed as Combustible liquid, n.o.s. (Petroleum Distillates) Combustible liquid NA1993 PG III (ERG#128) for bulk shipments (>119-gallons); less than bulk quantities are not regulated.

Air (ICAO/IATA) Shipping: Not Available.

International Maritime Organization (IMDG) Shipping: Not Available.

SECTION 15 – REGULATORY INFORMATION

SARA Title III, Section 313 (Toxic Release Inventory) – 1,2,4-Trimethylbenzene (~9.8%); Cumene (<1%); Xylene (<1 %).

Clean Air Act 1990 Hazardous Air Contaminants; Clean Air Act HON Rule (Hazardous Air Pollutant-HAP) – Cumene; Xylene.

SARA Title III, Section 302 (Hazardous Substance List) – None.

Canadian DSL/NDSL Inventory: Components of this product are listed either on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Class B Combustible Material; Class D2B Toxic Material.

TSCA Inventory: All of this product's components are listed.		
SECTION 16 – OTHER INFORMATION		
FOR INDUSTRIAL USE ONLY	USE ONLY AS DIRECTED	DO NOT TAKE INTERNALLY
HAZARD RATING: Health – 1 Flammability – 2 Reactivity – 0 Personal Protection – Glasses, Gloves		
Health: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	Flammability: 0 = Will Not Burn 1 = Flash Point > 200° F 2 = Flash Point > 100° F and < 200° F 3 = Flash Point < 100° F and Boiling Point > 100° F 4 = Flash Point and Boiling Point < 100° F	Reactivity: 0 = None 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme
<i>We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. Some information may be based on indirect test data.</i>		