



EKC[®] MATERIAL SAFETY DATA SHEET

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Signature of Person Responsible for Preparation: Date Prepared: November 16, 1992

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SECTION 1 - IDENTITY

Product Name: NRS 1020
 Synonyms: NRS 1020
 CAS Number: See Section 2 Below
 Chemical Family: Organic Solvent Blend
 Formula: Not Available

SECTION 2 - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS Number</u>	<u>%</u>	<u>OSHA-PEL/ACGIH-TLV</u>	<u>OTHER</u>
Aromatic Hydrocarbon Solvent	64742-94-5	Proprietary	500 ppm	None
Dodecylbenzenesulfonic acid	27176-87-0	Proprietary	None	None
Napthalene	91-20-3	Proprietary	None	None

SECTION 3 - PHYSICAL DATA

Specific Gravity: 0.99-1.03
 Boiling Range: 400 - 580 °F
 Solubility in Water: Negligible
 Vapor Pressure (mmHg): 0.4mm Hg @ 68 °F
 Vapor Density: >1 (Air = 1)
 Evaporation Rate: <1 Butyl Acetate = 1)
 Appearance and Odor: Purple Red liquid with aromatic odor.
 pH: 1.66 - 1.76 @ 22 °C

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method:	200°F (93°C)/Tag Closed Cup (TCC)
Auto-ignition Temperature:	Not available
Flammable Limits in Air, % by Volume:	Lower: Unknown Upper: Unknown
Extinguishing Media:	Foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures:

Wear full protective clothing with self-contained positive pressure breathing apparatus. Do not use water except as fog.

Unusual Fire and Explosion Hazards:

Do not mix or store with strong oxidants. Keep work areas free of sources of ignition.

SECTION 5 - REACTIVITY DATA

Stability:

Stable at normal temperatures and conditions of storage.

Incompatibility:

Strong oxidizing agents. Corrosive when mixed with water.

Hazardous Decomposition Products:

Carbon Monoxide.

Hazardous Polymerization:

Will not normally occur.

SECTION 6 - HEALTH HAZARD DATA

Primary Route(s) of Entry: Inhalation, skin contact, skin absorption.

Effects of Overexposure:

Inhalation: The vapor may cause irritation to the upper respiratory tract, headache, dizziness, nausea.

Ingestion: This material will cause corrosive burns if ingested.

Skin Contact: This material will cause corrosive burns to the skin.

Eye Contact: This material will cause corrosive burns to the eyes.

Other Effects of Overexposure: No additional information is available.

Medical Conditions Aggravated by Exposure: No information is available.

Other Toxicity Data:

Inhalation:	LC ₅₀ - No information available on this mixture.
Ingestion:	LD ₅₀ - No information available on this mixture.
Skin Contact:	LD ₅₀ - No information available on this mixture.
Eye Contact:	No additional information is available.

Carcinogenicity:

National Toxicology Program (NTP):	Not listed
IARC Monographs:	Not listed
OSHA:	Not listed
Other:	Not listed

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air immediately. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Consult a physician.

Ingestion: DO NOT INDUCE VOMITING. Seek immediate medical attention. Maintain an open airway. Administer artificial respiration if necessary. Never give anything by mouth to an unconscious person.

Skin Contact: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. If redness or irritation occurs, seek medical attention.

Eye Contact: Flush with plenty of water for at least 15 minutes. Have eyes examined and treated by a physician.

NOTE TO PHYSICIAN: No additional information is available.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released:

Evacuate area and keep personnel upwind. Cut off any source of ignition and ventilate the spill area. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a covered metal container for disposal. Consult with Federal, State and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State and local regulations on reporting releases.

Disposal Method:

Comply with Federal, State and local regulations.

Section 313 Supplier Notification:

This product contains naphthalene at an upper bound concentration of 5% which are 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.

EPA Waste Identification Numbers:

None. Consult local, state and federal regulations concerning the proper classification of any waste generated from the use of this product.

Reportable Quantity (RQ):

None

Container Disposal:

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR 261 and 40 CFR 268 for guidance on disposal.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection:

Use as a minimum, a NIOSH approved full-face respirator with canisters or cartridges specifically approved for organic vapors. Whenever cartridges or canister respirators are used, insure the frequent changing of the filter element. Use a supplied air respirator when in doubt of the atmospheric concentration. Consult 29 CFR 1910.134 regarding use of respirators.

Protective Clothing:

Take all precautions to prevent skin contact. Wear chemical resistant clothing, gloves and boots.

Eye Protection: Use chemical goggles or face shield.

SECTION 9 - SPECIAL PRECAUTIONS

Storage and Handling:

Store in a cool, dry, well-ventilated area at 40° - 90°F (5° - 32°C). Keep in original tightly closed containers away from oxidizing agents and other incompatible chemicals. Prevent skin and eye contact.

Other Comments:

This material is for industrial use and should only be used under the supervision of a technically qualified individual. Due to the limited information available on this product, exposures should be kept to the lowest amount practicable.

Sources of Additional Information:

Established reference texts, on-line computer information services, and recent journal publications may provide additional information on the characteristics and hazards of the ingredients used in NRS 1020.

The information included in this document is taken from sources, or based on data believed to be reliable and is given in good faith. No warranty is made, however, as to the absolute correctness of any of this information, or that additional or other measures may not be required under particular conditions. The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to use in combination with any other material or in any process. Please refer to the OSHA Hazard Communication Standard 29 CFR 1910.1200 for guidance in the use of this information.