MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-2; Flammability-2; Reactivity-0; Special- -	**HMIS Rating:** Health-2; Flammability-2; Reactivity-0; Personal Protection-B
Sold By: Continental Research Corp Address: P O Box 15204 Address: St. Louis, MO. 63110	**DOT Hazard Classification:** **For ground transport:** Combustible (CFR173.150F) (in bulk container less than 110 gallons capacity) **For ocean vessel or air transport:** Flammable Liquid, 3 **Identity** (trade name as used on label)**:** **N.S.H. 2025**
Date Prepared: 02/07/03 Prepared By: Tec Service	**MSDS Number:** Revision - 1
Information Calls: (800) 325-4869 **EMERGENCY NUMBER: 1-800-325-4869**	NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PETROLEUM DISTILLATE	68476-30-2	No	500	500	d
2-BUTOXYETHANOL (glycol ether)	111-76-2	Yes	25(skin)	25(skin)	d
2,4-D ISOOCTYL ESTER	1928-43-4	Yes	10mg/m3	10mg/m3	e
5-BROMO-3-SEC-BUTYL METHYLURACIL	314-40-9	Yes	10mg/m3	10mg/m3	e

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Initial 430ºF	**Specific Gravity** (H2O=1): 0.90
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	**Vapor Pressure** (Non-Aerosols)(mm Hg and Temperature): 0.3
Vapor Density (Air = 1): greater than 1	**Evaporation Rate** (BUAC = 1): 0.07
Solubility in Water: Insoluble	**Water Reactive:** Negligible

Appearance and Odor: Amber to red fluid with aromatic odor.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols)	Auto Ignition Temperature	Flammability Limits in Air by % in Volume:
N/A	N/A	% LEL: 1.0 % UEL: 6.0

FLASH POINT AND METHOD USED (non-aerosols): approximately 140ºF TCC (may vary due to variation in petroleum) **EXTINGUISHER MEDIA:** Carbon dioxide, sand, dry chemical, water fog.	**SPECIAL FIRE FIGHTING PROCEDURES:** Do not enter confined space without full bunker gear including positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire & Explosion Hazards: Oxidation & thermal decomposition can liberate noxious & toxic fumes.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [ ] UNSTABLE	**HAZARDOUS POLYMERIZATION** [ ] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to avoid): Strong oxidizing agents.	**Conditions to Avoid:** Excessive heat, sparks, open flame.

Hazardous Decomposition Products: Oxides of carbon & nitrogen, hydrogen chloride, hydrogen bromide, unidentified organics.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [X] INHALATION [ ] INGESTION [X] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS

ACUTE EFFECTS: CNS symptoms: giddiness, headache, dizziness, nausea, unconsciousness.

Inhalation: High vapor or spray mist concentrations may produce nose, throat & respiratory irritation & may cause CNS depression (see symptoms above).

Eye Contact: Liquid is slightly irritating. High vapor concentrations may be irritating.	**Skin Contact:** Prolonged or repeated contact can result in defatting of skin, irritation and dermatitis.

Ingestion: Not highly toxic, but may result in vomiting. Aspiration of vomitus may result in pneumonitis.

CHRONIC EFFECTS: None known.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. while holding lids open. Get medical attention.

Skin Contact: Remove contaminated clothing. Wipe excess from skin. Wash with soap and water. If irritation persists, get medical attention.

Inhalation: Remove to fresh air. If CNS symptoms occur, get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Avoid prolonged or repeated breathing of vapors or spray mist. Respirator not required with adequate ventilation.

Protective Gloves: Chemical resistant.	**Eye Protection:** Safety glasses or goggles as appropriate.

Ventilation Requirements: Normal room ventilation is adequate for normal handling & storage. For large spills, use explosion-proof ventilation to control vapor concentration.

Other Protective Clothing & Equipment: Eyewash stations & safety showers. Chemical resistant clothing as needed to minimize contact.

Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling. Launder contaminated clothing before reuse.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Contain spill. Do not contaminate sewers, ground waters or surface waters. Soak up in inert absorbent material & place into properly labeled & sealed non-leaking containers for disposal in authorized manner as hazardous waste.

Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.

Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Keep away from sources of heat, sparks or open flame.

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions. Do not cut or weld on full, part full or empty drums because explosive mixtures of air & vapor may be present.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

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