SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers
Catalog Name: P-569N
Description: Furathiocarb
CAS No.: 65907-30-4

1.2 - Relevant Identified Uses of the Substance or Mixture
Laboratory Chemical Reference Material

1.3 - Supplier Details
Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA
Telephone Number: 203-786-5290
Fax: 203-786-5287
Email: edocs@accustandard.com

1.4 - Emergency Telephone Number
Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)
24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements

Signal Word: Danger
Hazard Codes:
H301 - Toxic if swallowed. (Acute toxicity, oral, category 3)
H315 - Irritating to skin. (Skin corrosion/irritation, category 2)
H320 - Irritating to eyes. (Eye damage/irritation, category 2B)
H330 - Fatal if inhaled. (Acute toxicity, inhalation, category 1)
H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)
H372 - Danger of serious damage to health by prolonged exposure. (Specific target organ toxicity, repeated exposure, Category 1)
H401 - Toxic to fish and other water organisms. (H410)
H413 - May cause long-term adverse effects in the aquatic environment.
2.1 - GHS Label Elements - continued

Precautionary Codes:

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P235 - Store in a cool dry place.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Danger of serious damage to health by prolonged exposure. (Specific target organ toxicity, repeated exposure, Category 1)

Exposure can cause sweating, convulsions, headache, abdominal pain, nausea, vomiting and weakness.

May cause muscle fatigue and weakness.

Cholinesterase inhibitor. Can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate and/or a fall in blood pressure.

Toxic to fish and other water organisms. (H410)

May cause long-term adverse effects in the aquatic environment. (H413)

2.2.2 - Potential Health Effects

Irritating to eyes. (Eye damage/irritation, category 2B)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

Fatal if inhaled. (Acute toxicity, inhalation, category 1)

Toxic if swallowed. (Acute toxicity, oral, category 3)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.
SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Furathiocarb
Synonyms: Butyl 2,3-dihydro-2,2-dimethylbenzofuran-7-yl N,N'-dimethyl-N,N'-thiodicarbamate
Molecular Weight: 382.48
Molecular Formula: C18H26N2O5S
EC#: 265-974-3
Index#: 006-087-00-1

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SECTION 4 - FIRST AID MEASURES

4.1 - First Aid Procedures - General
Get medical assistance for all cases of overexposure.

4.2 - Eye Contact
Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact
Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

4.4 - Inhalation
Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion
Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.2 - Extinguishing Media
Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

5.3 - Protection of Firefighters
As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response
Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.
SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)
Store in a cool dry place. (P235)
Avoid inhalation.
Use with adequate ventilation.
Do not get in eyes, on skin or clothing. (P262)
Avoid prolonged or repeated exposure.
This product should only be used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE
Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygiene Considerations
Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.
Protective gloves must be worn to prevent skin contact. (P280)
(Butyl, viton or equivalent)
Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous liquid
Odor: N/A
Odor Threshold: N/A
pH: N/A
Melting Point: >250 °C
Boiling Point: N/A
Flash Point: N/A
Evaporation Rate (Butyl Acetate=1): N/A
Flammability Class: N/A
Lower Flammability Level: N/A
Upper Flammability Level: N/A
Vapor Pressure: N/A
Vapor Density (Air = 1): N/A
Specific Gravity: 1.148 g/cm3
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES - continued

Solubility in Water: 11 mg/L
Partition Coefficient: log Pow: 4.7
Autoignition Temperature: N/A
Decomposition Temperature: N/A
Viscosity: N/A
VOC Content: N/A
Percent Volatile: N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: Oxidizers
Hazardous Decomposition: Oxides of carbon, nitrogen and sulfur; Hydrogen sulfide
Hazardous Polymerization: Will not occur
Condition to Avoid: Excessive heat

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity
See section 2 for specific toxicological information for the ingredients of this product.
LD50 (Oral): Rat - 53 mg/kg
LD50 (Dermal) : Rat - >2000 mg/kg
LC50 (Inhalation): Rat - 0.214 mg/L
No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity
By complying with sections 6 and 7 there should be no release to the environment.
LC50 (Fish): 0.03 mg/L 96H
EC50 (Aquatic Invertebrate): 0.0018 mg/L 48H
BCF: 92
Low threshold for concern
Low potential to bioaccumulate
No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)
UN Number: UN2810
Class: 6.1
SECTION 14 - TRANSPORT INFORMATION - continued

Packing Group: I
Proper Shipping Name: Toxic liquid, organic, n.o.s. (Furathiocarb)
Poison by Inhalation: No
Marine Pollutant: Yes

SECTION 15 - REGULATORY INFORMATION

The CAS number of this product is NOT listed on the TSCA Inventory.
This product is NOT subject to SARA section 313 reporting requirements.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.
In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPS regulations.
Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend :  N/A = Not Available       ND = Not Determined       NR = Not Regulated

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HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

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